

FIG. 1

10

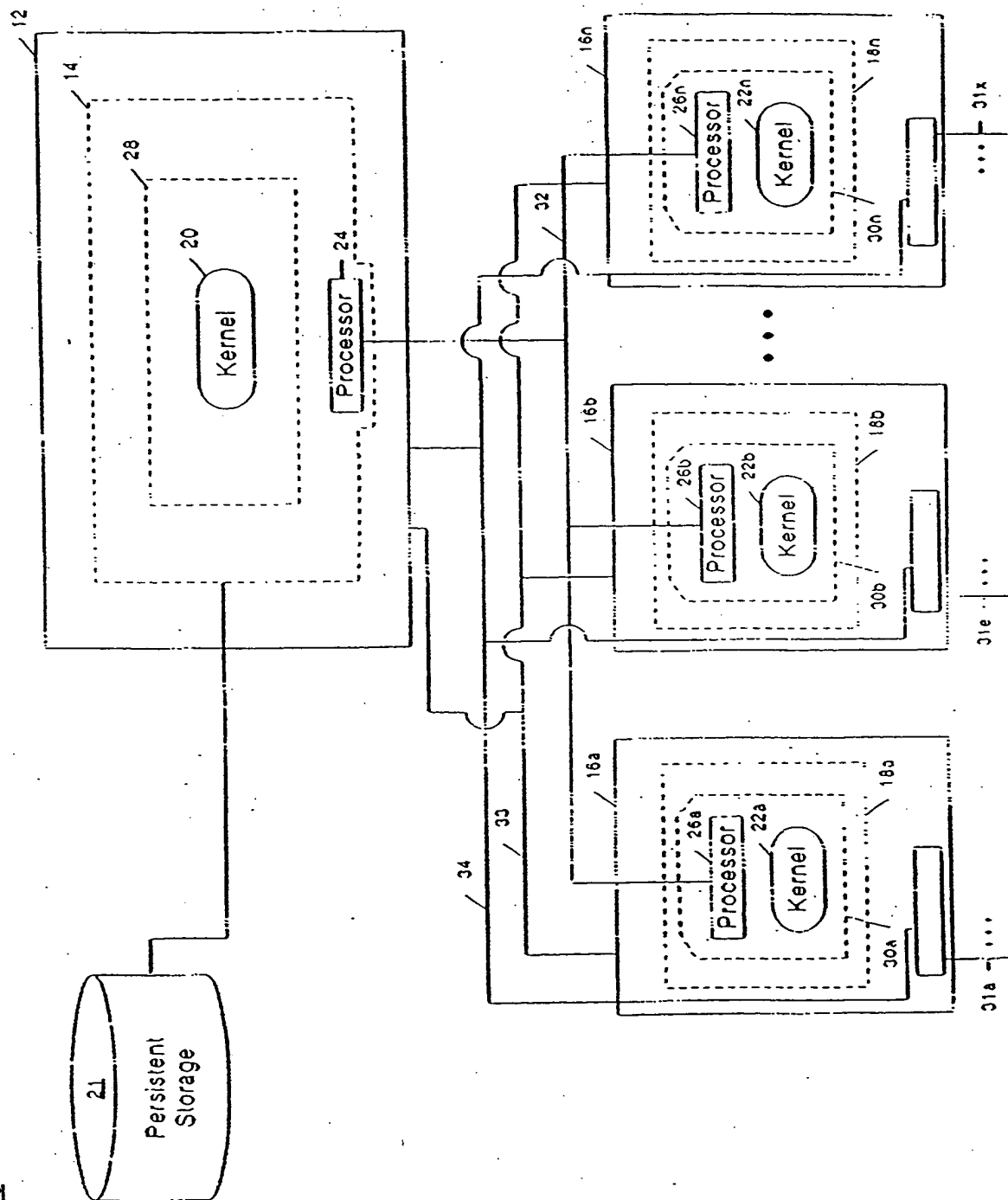


Fig. 2a

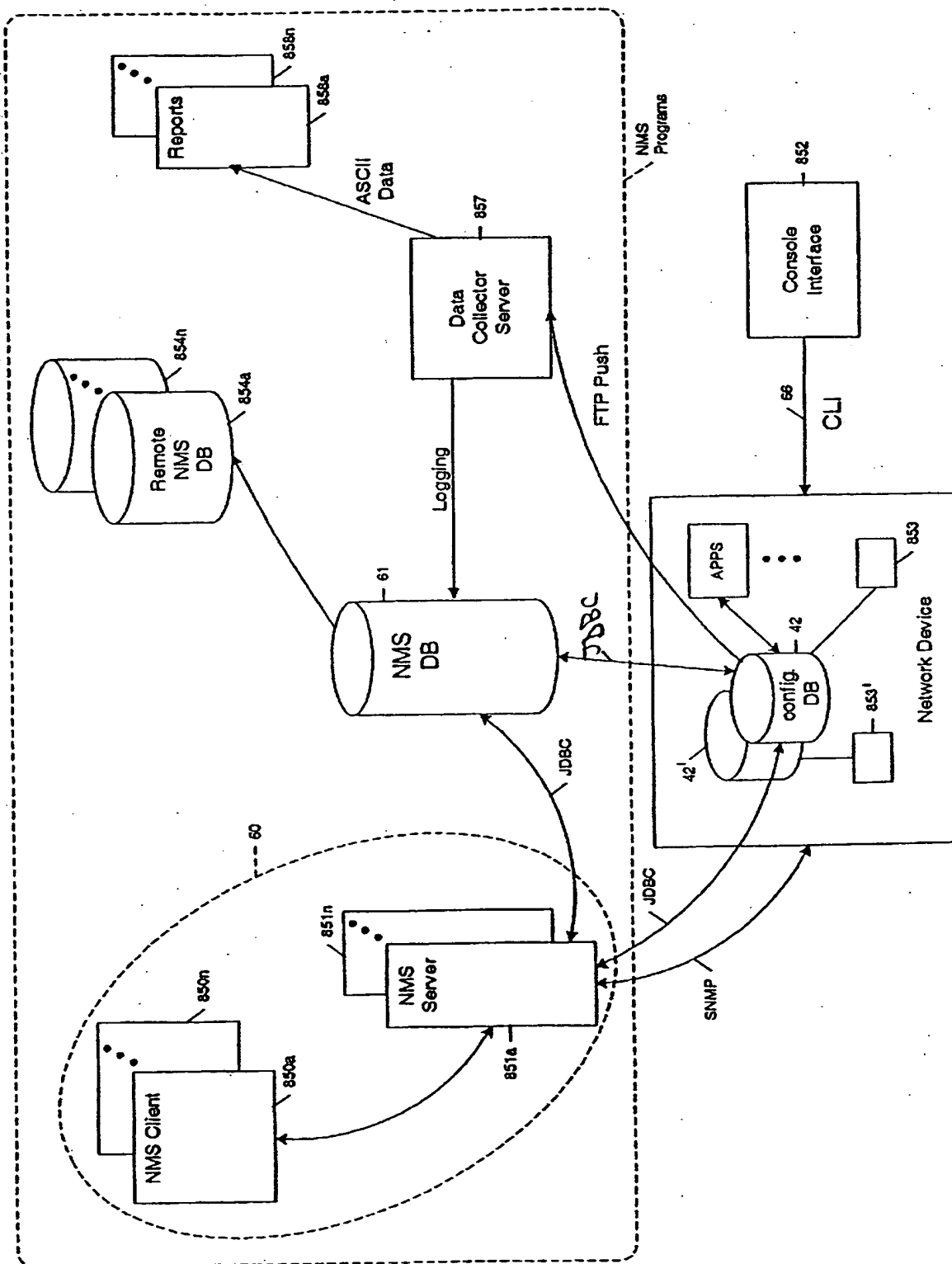


Fig. 2b

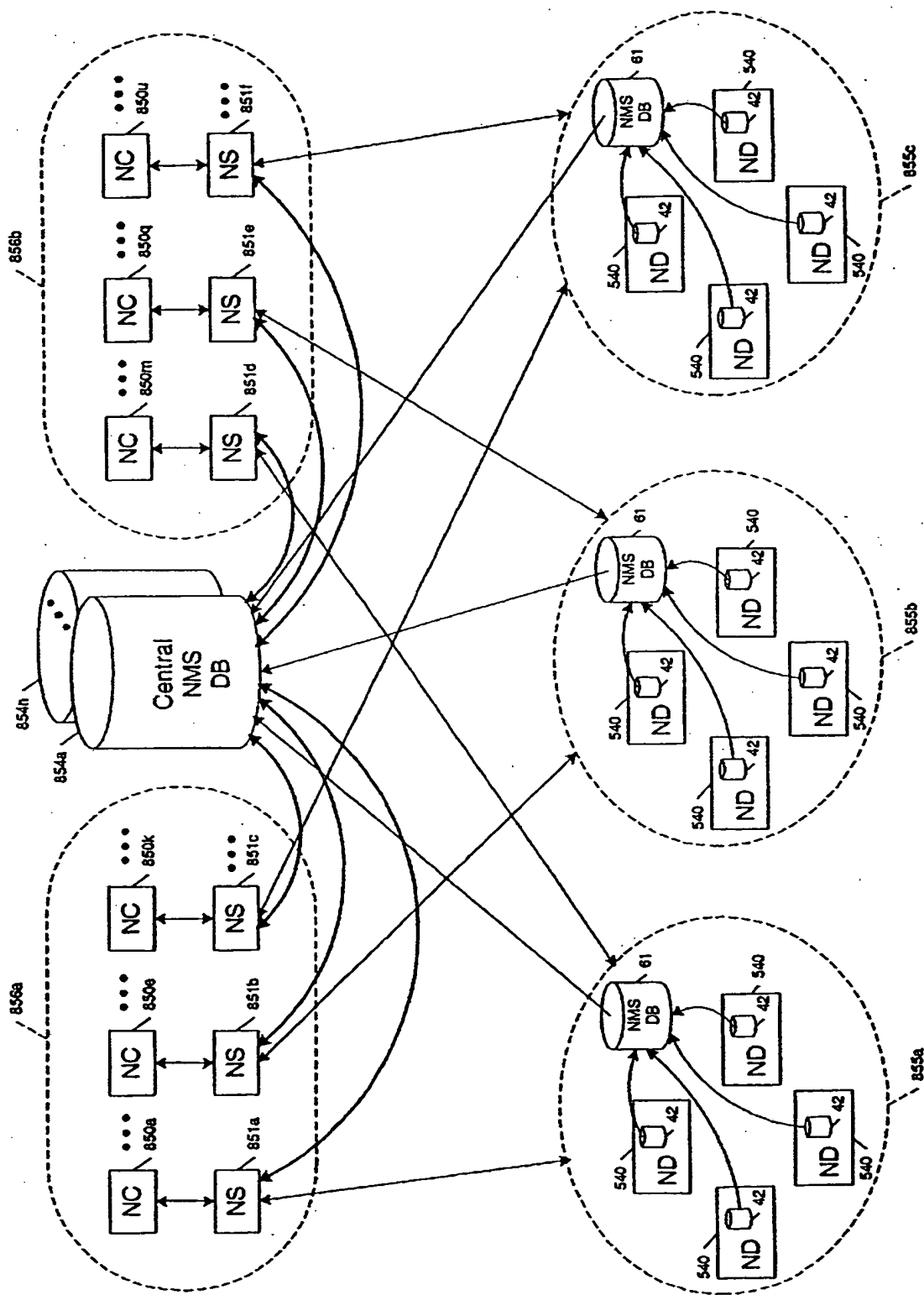


FIG. 3a

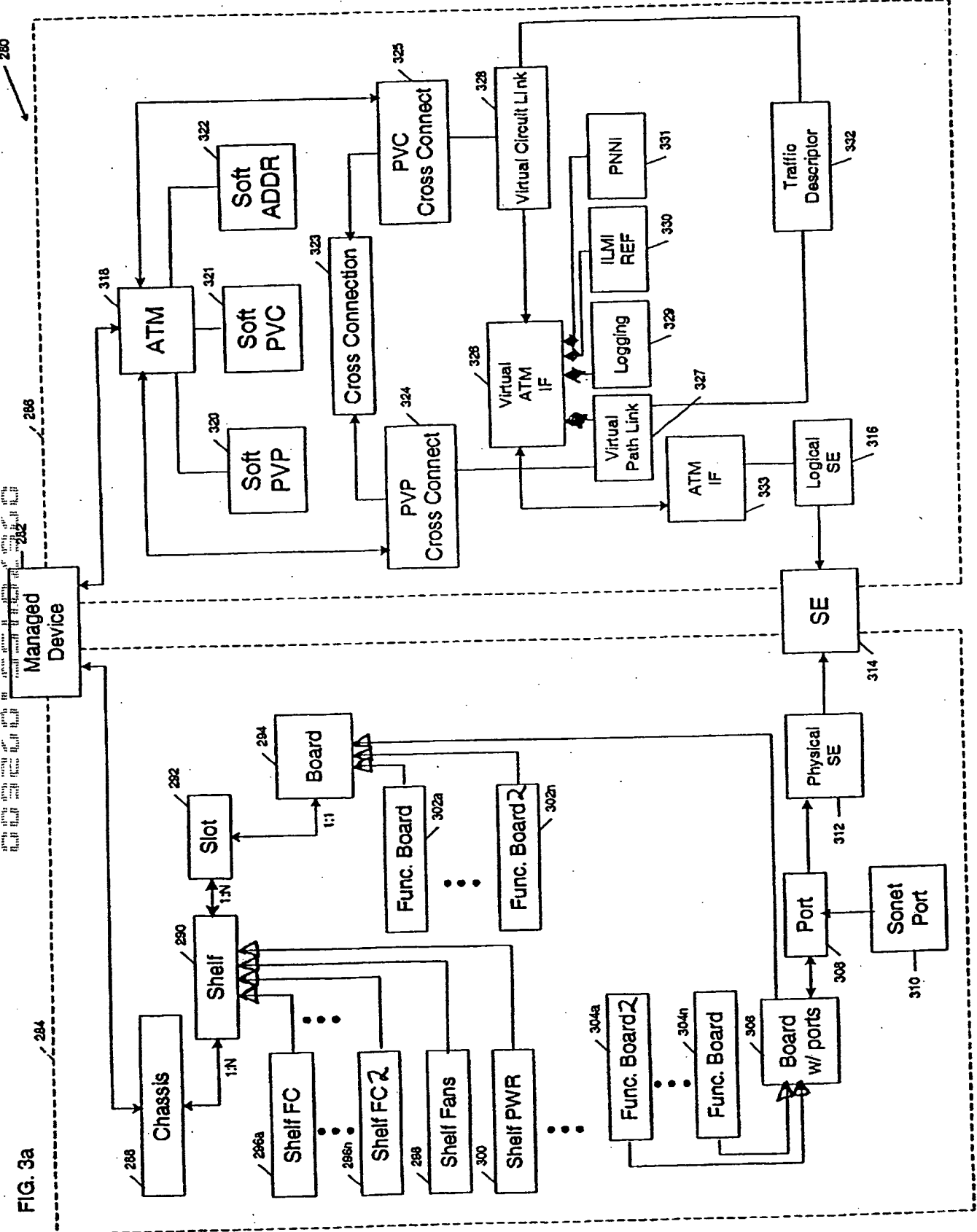
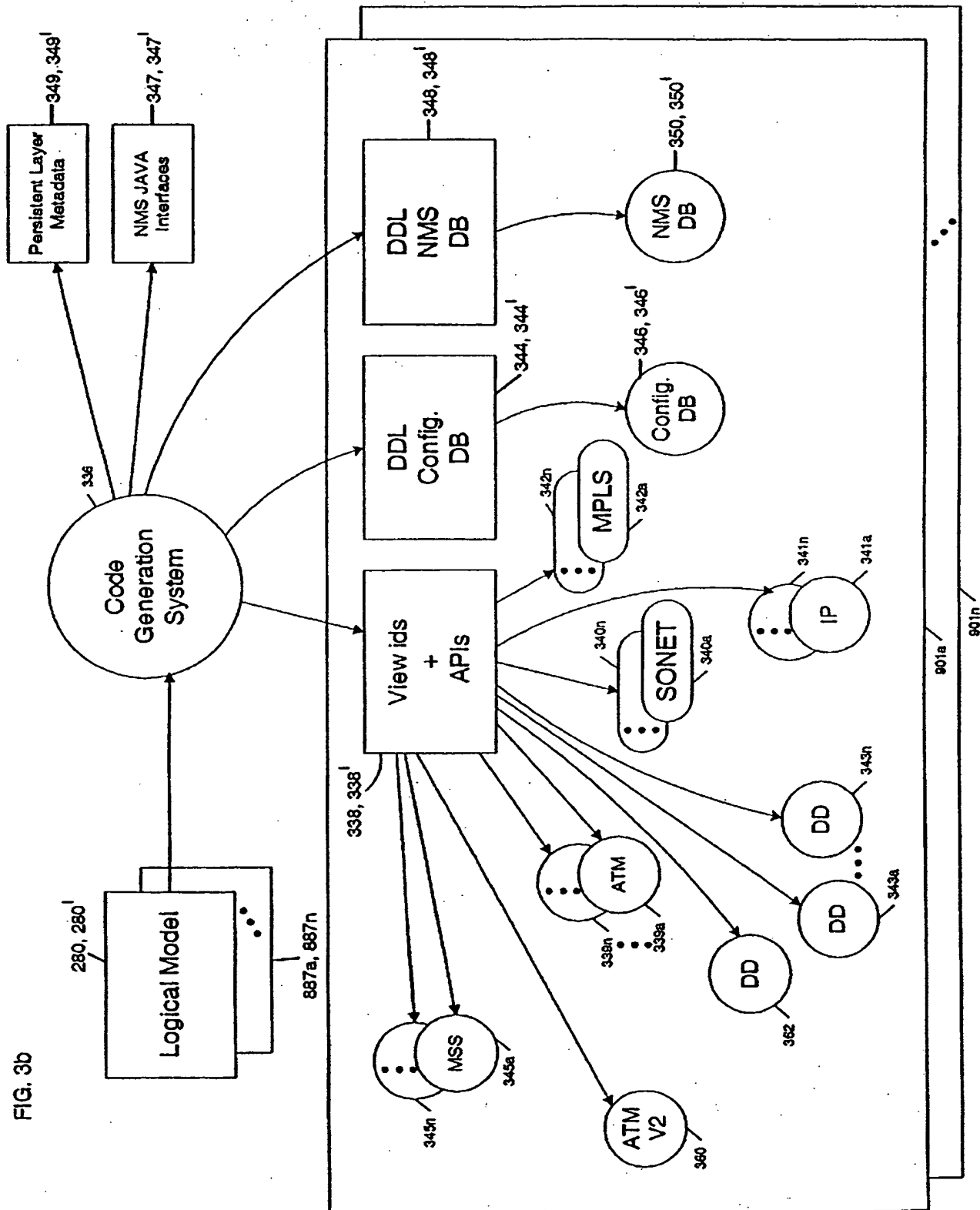


FIG. 3b



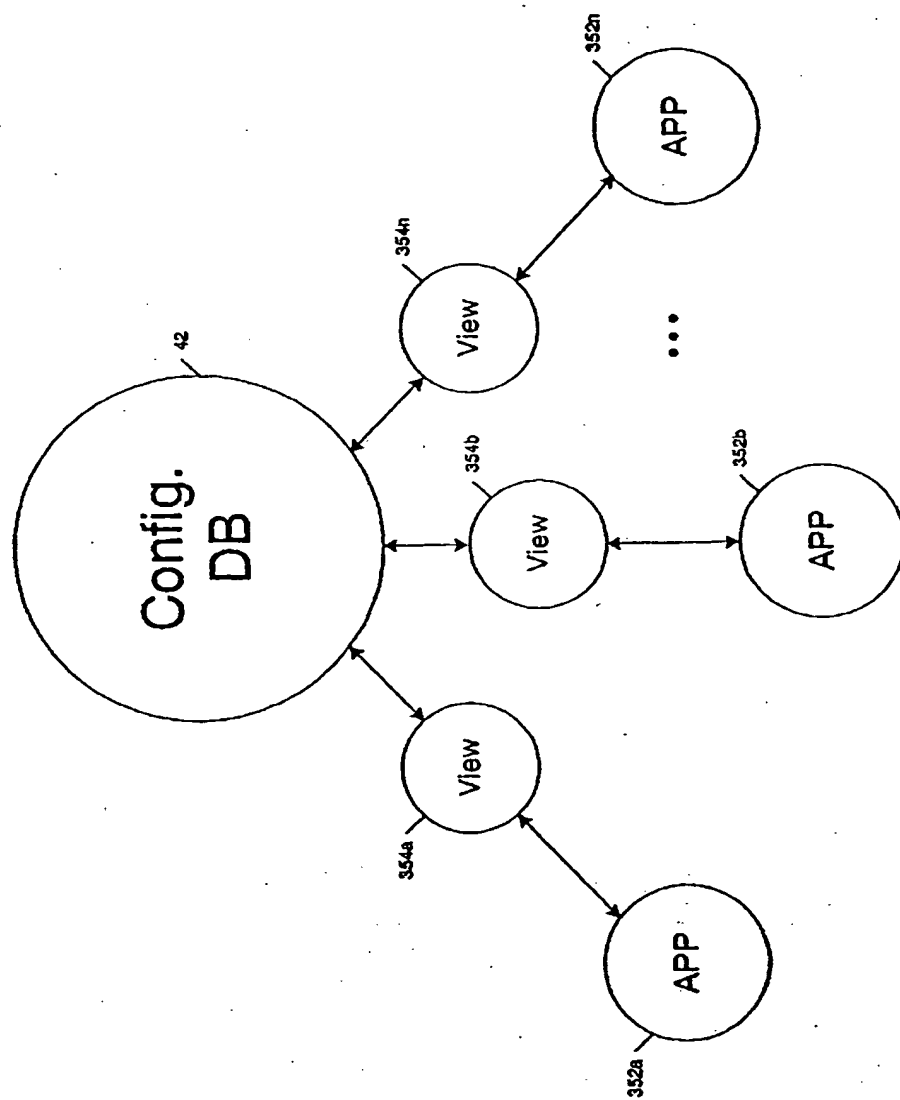
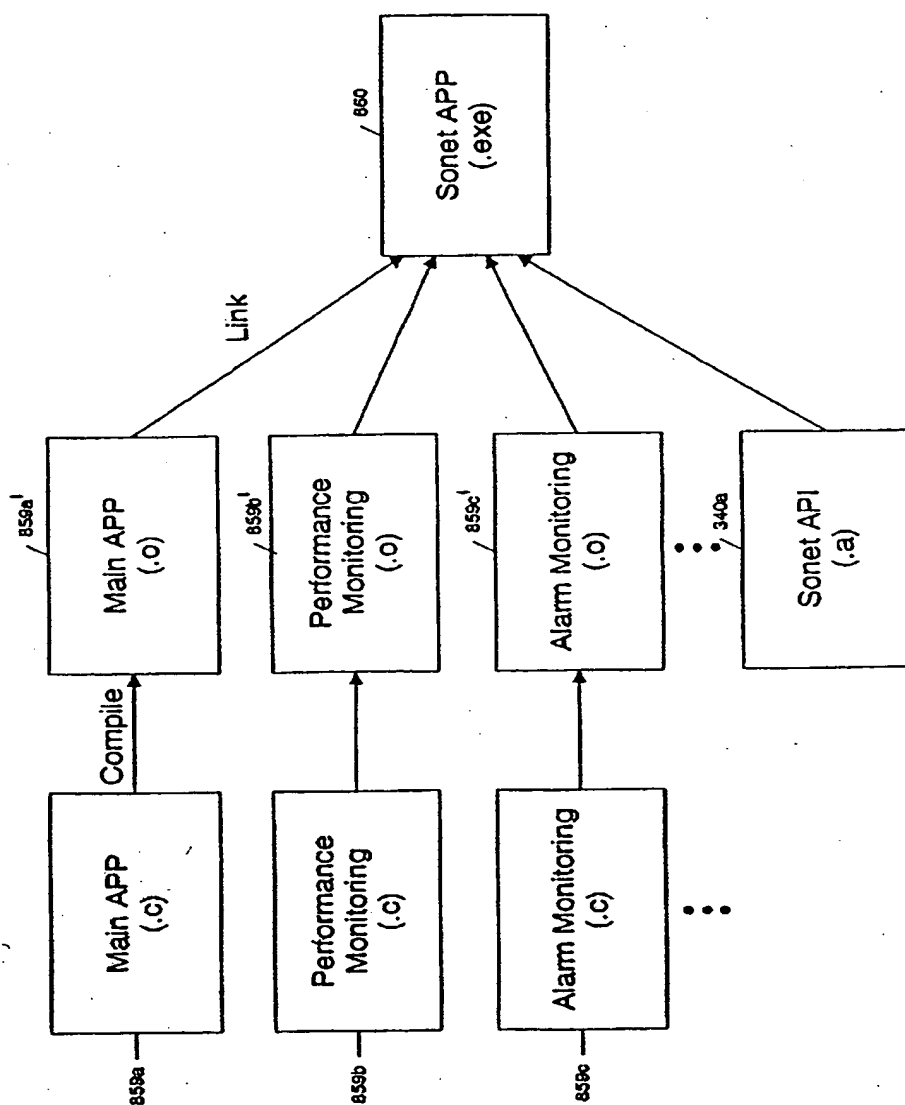


FIG. 3c

Fig. 3d

Build SONET Application



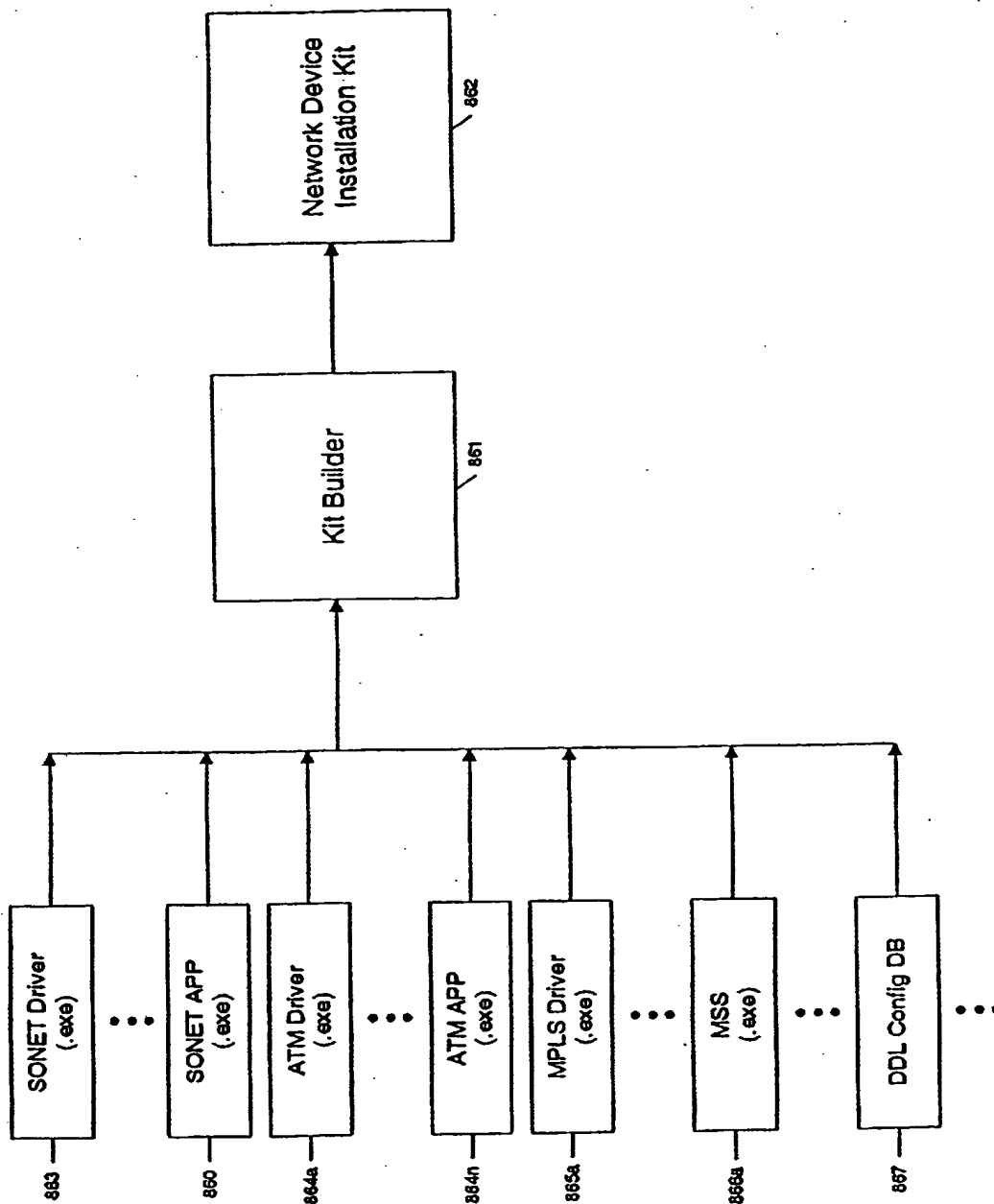


Fig. 3e

Fig. 3R

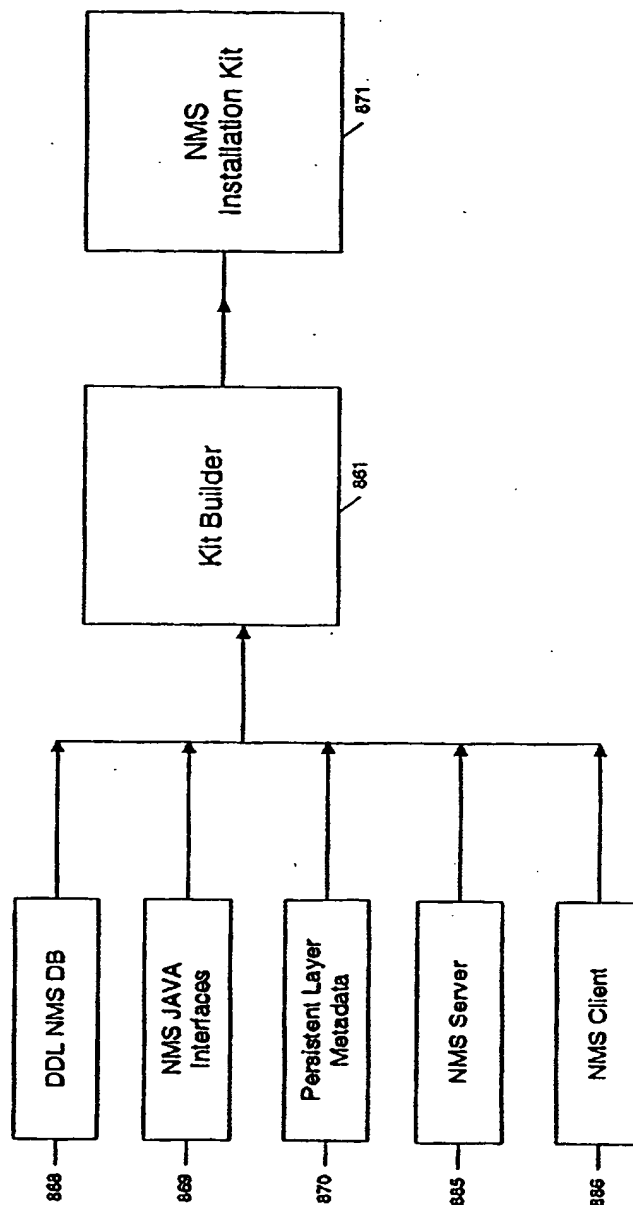


Fig. 3g

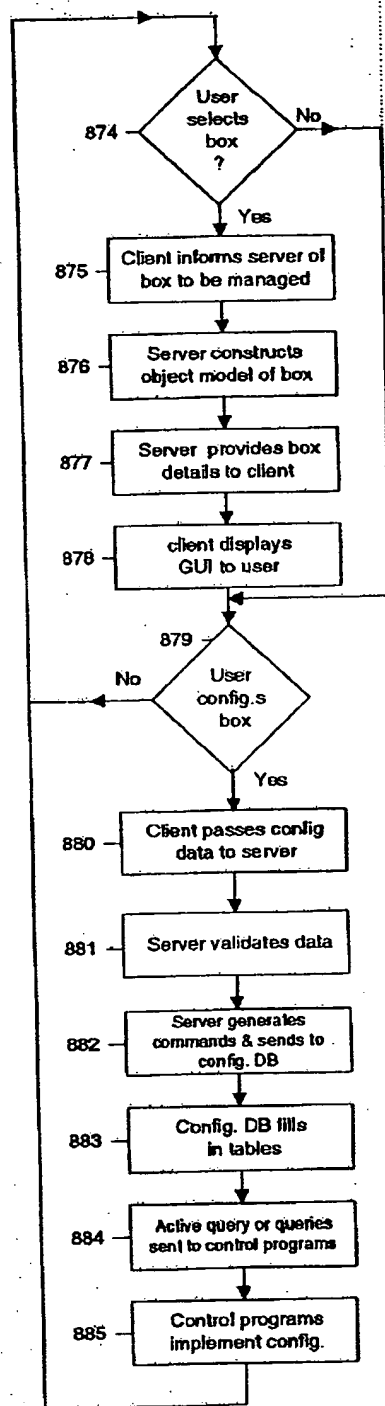
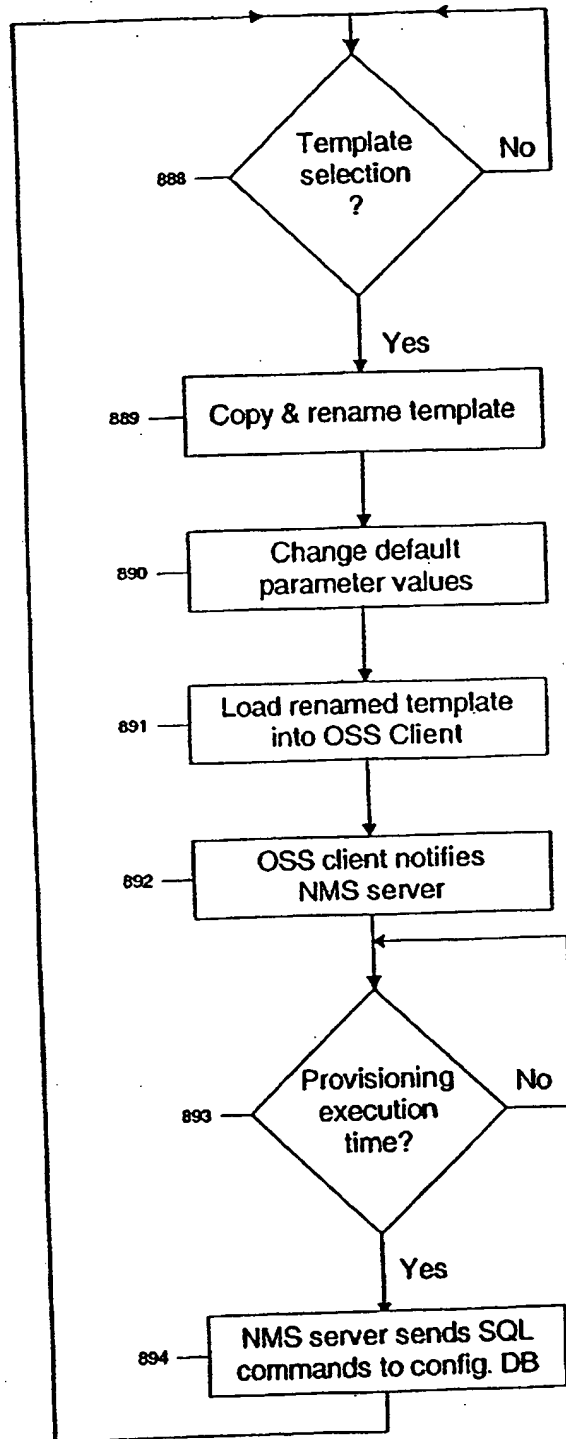


Fig. 3h



912

```
Command Prompt (2) - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli> help
Commands are:
bye
close
execute
help
load
manage
open
quit
showCurrent
showTemplate
set
status
writeCurrent
writeTemplate
Enetcli>
Enetcli>
914 Enetcli> showCurrent SPATH
ATMIfName=ATMIf11/1/1
Concatenated=false
Name=Path11/1/1
Operant=SPATH
Operator=Create
PortID=1
Position=1
Service=ATM
ShelfID=11
SlotID=1
Type=Terminated
Version=U1_1_0_0
Width=STS3
Enetcli>
Enetcli>
Enetcli>
916 Enetcli> showTemplate SPATH
ATMIfName=<String>[TerminatedOnly]
Concatenated=<true:false>
Name=<String>
Operant=SPATH
Operator=<Create:Replace:Update:Delete>
PortID=<Integer><1-16>
Position=<Integer>
Service=<None:ATM>
ShelfID=<11[top]:13[bottom]>
SlotID=<Integer><1-8>
Type=<Switched:Terminated>
Version=U1_1_0_0
Width=<STS1:STS3:STS12:STS48>
Enetcli>
Enetcli>
918 Enetcli> status
919 Not currently connected to server
Supporting templates: CONTROL, PUC, SPATH, SPUC, ID, and UAIF
920 Enetcli>
```

Fig.3i

Fig. 3j

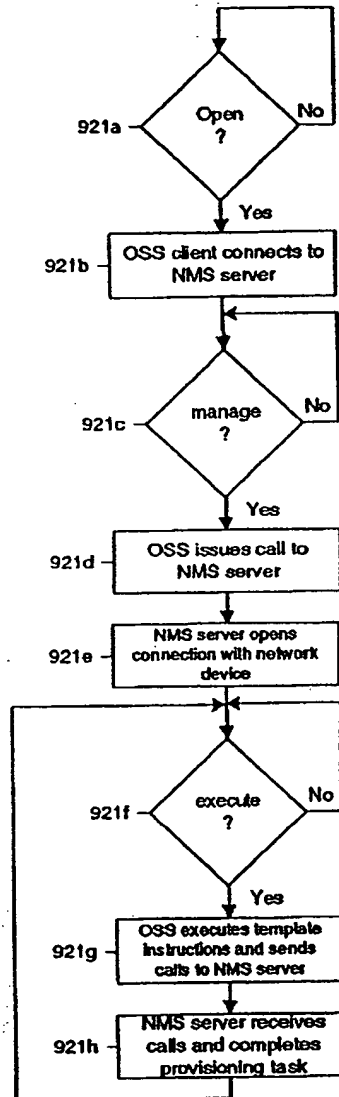


Fig. 3K

```

922- Command Prompt (2) - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli> showCurrent CONTROL
Input=Q:\nms\com\equipecon\nms\utils\enetcli
Interactive=false
Operant=CONTROL
Operator=Manage
923d- Output=Q:\nms\com\equipecon\nms\utils\enetcli
923f- Password=None
923e- System=192.168.9.202
923o- User=None
923g- Version=U1_1_0_0
Server=localhost
923a- Enetcli>

```

Fig. 3L

← 924 BATCH

Operant=BATCH

Operator=Execute

Version=V1_1_0_0

924a — Task1=execute-SPATH

924b — Task2=execute-PVC

924c — Task3=execute-SPVC

924d — Task4=load-SPVC-spvc1

924e — Task5=execute-SPVC

924f — Task6=load-SPVC-spvc2

924g — Task7=execute-SPVC

924h — Task50=set-SPATH-PortID-3

924i — Task51=execute-SPATH

924j — Task52=set-SPATH-SlotID-2

924k — Task53=execute-SPATH

Fig. 3M

← 925

Operant=BATCH

Operator=Execute

Version=V1_1_0_0

925a—Task1=execute-CONTROL

925b—Task2=execute-SPATH

925c—Task3=set-SPATH-PortID-3

925d—Task4=execute-SPATH

925e—Task61=set-CONTROL-System-192.168.9.201

925f—Task62=execute-CONTROL

925g—Task63=execute-SPATH

925h—Task108=close

925i—Task109=set-CONTROL-Server-Server1

925j—Task110=set-CONTROL-System-192.168.8.200

925k—Task111=execute-CONTROL

925l—Task112=execute-SPATH

895

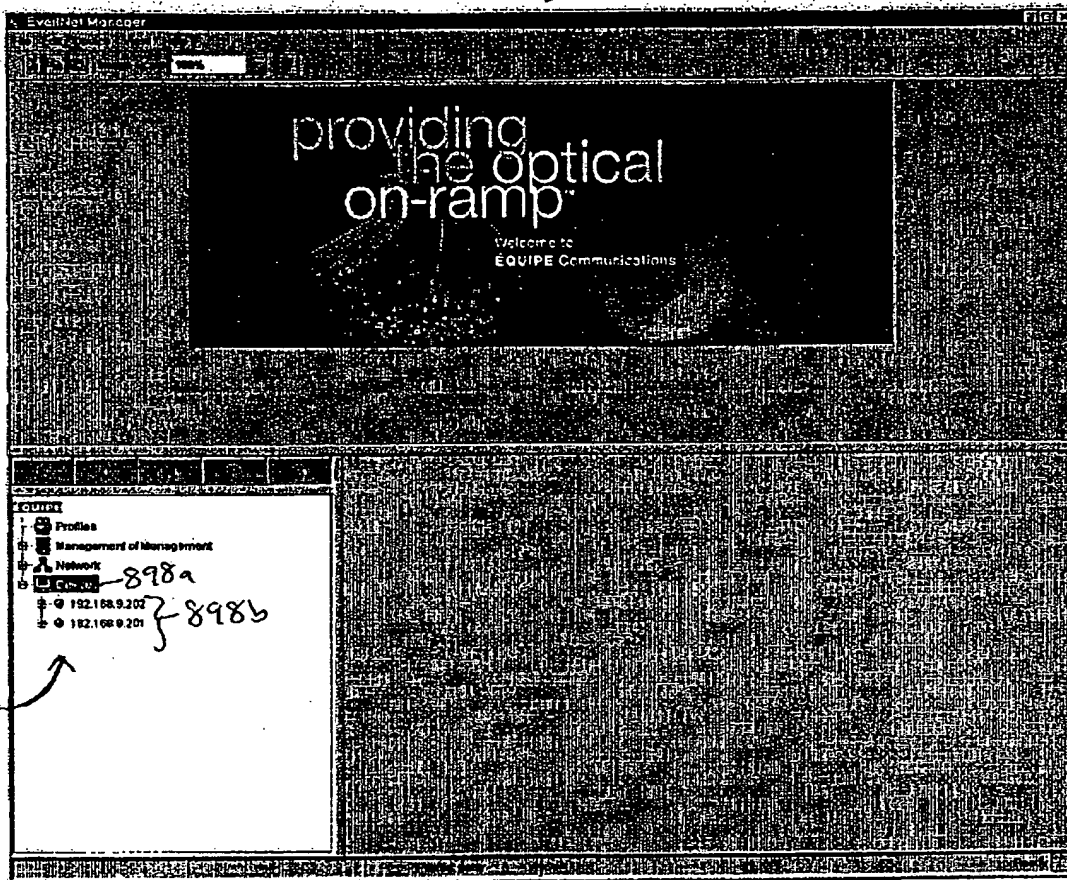


Fig. 4a

895

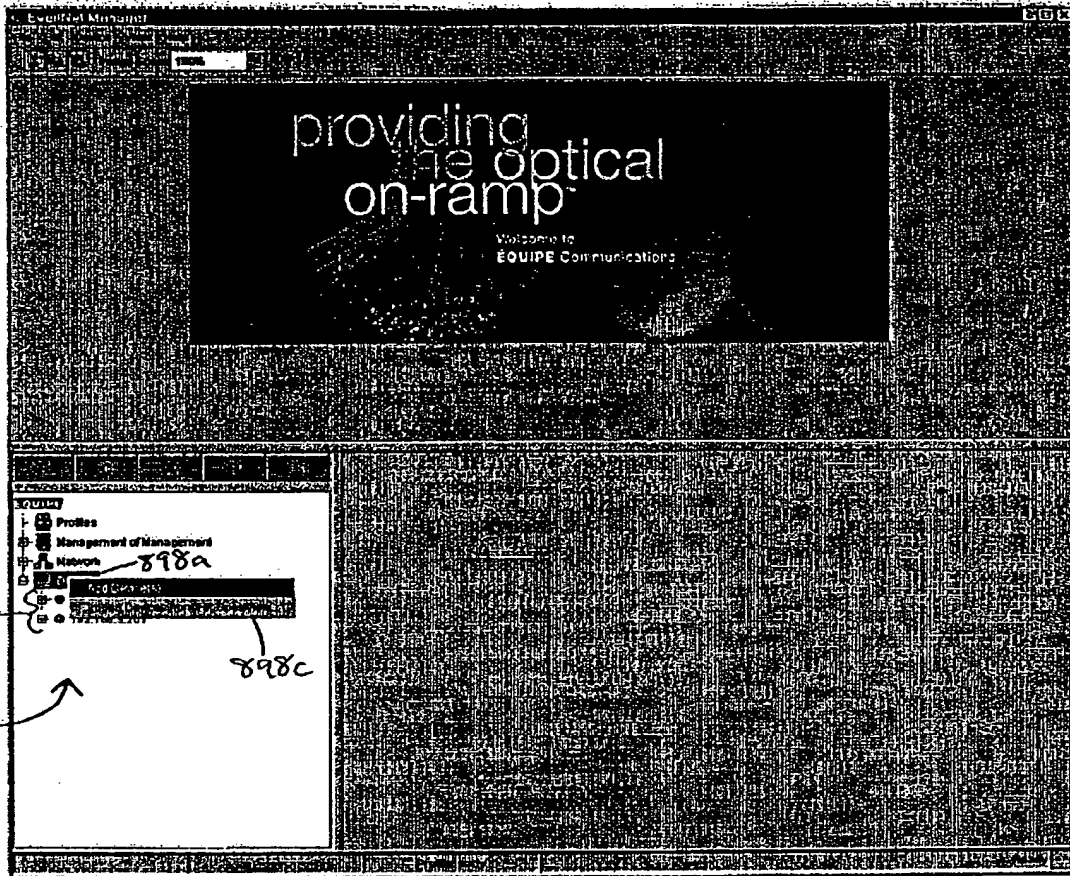


Fig. 4b

Fig. 4c

The screenshot shows a dialog box titled "AddDeleteDeviceDlg". It contains a text field with the IP address "192.168.9.203". Below this is a checked checkbox labeled "Add device to the network". There is a "OK" button and a "Cancel" button. A large empty rectangular area is at the bottom of the dialog.

898d

Fig. 4d

The screenshot shows the same dialog box as Fig. 4c, but with additional elements. The text field now contains "192.168.9.203" and is checked. Below the text field is a "Delete" button. At the bottom of the dialog, there are three buttons: "OK", "Cancel", and "Delete".

898d

898g

898j

898i

898h

895

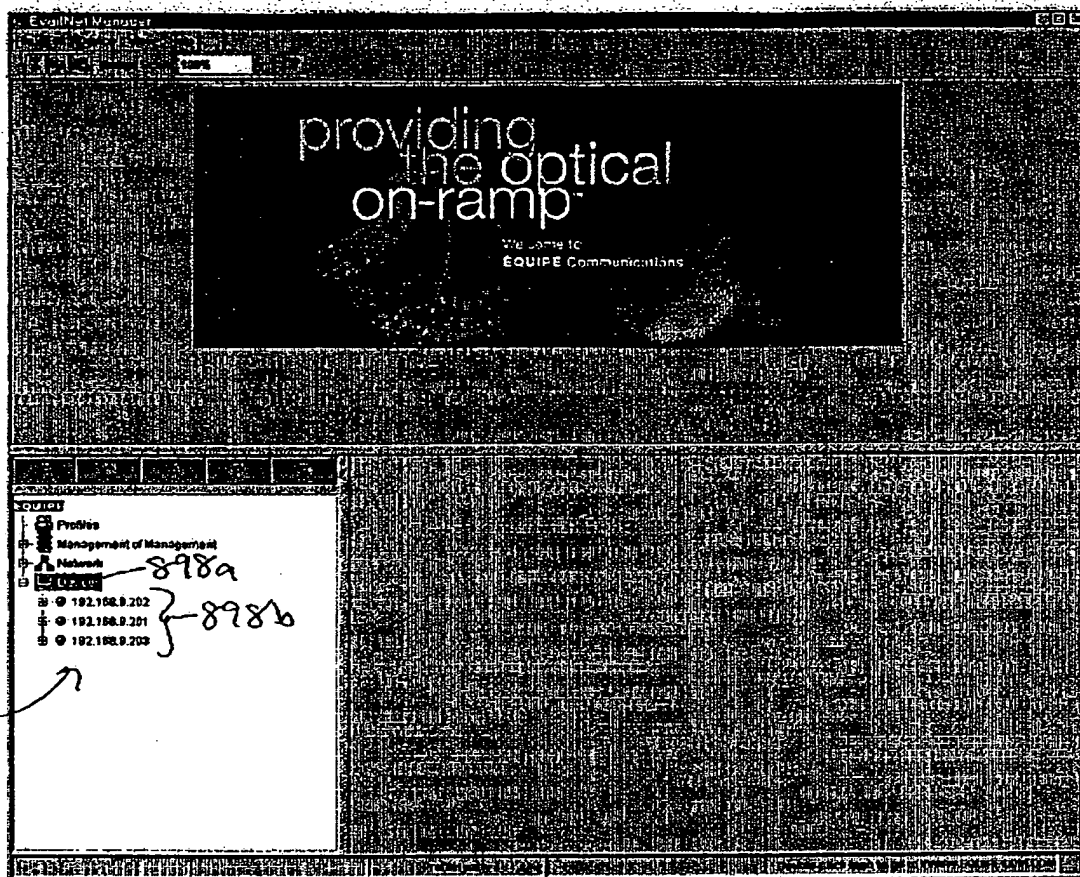


Fig. 4e

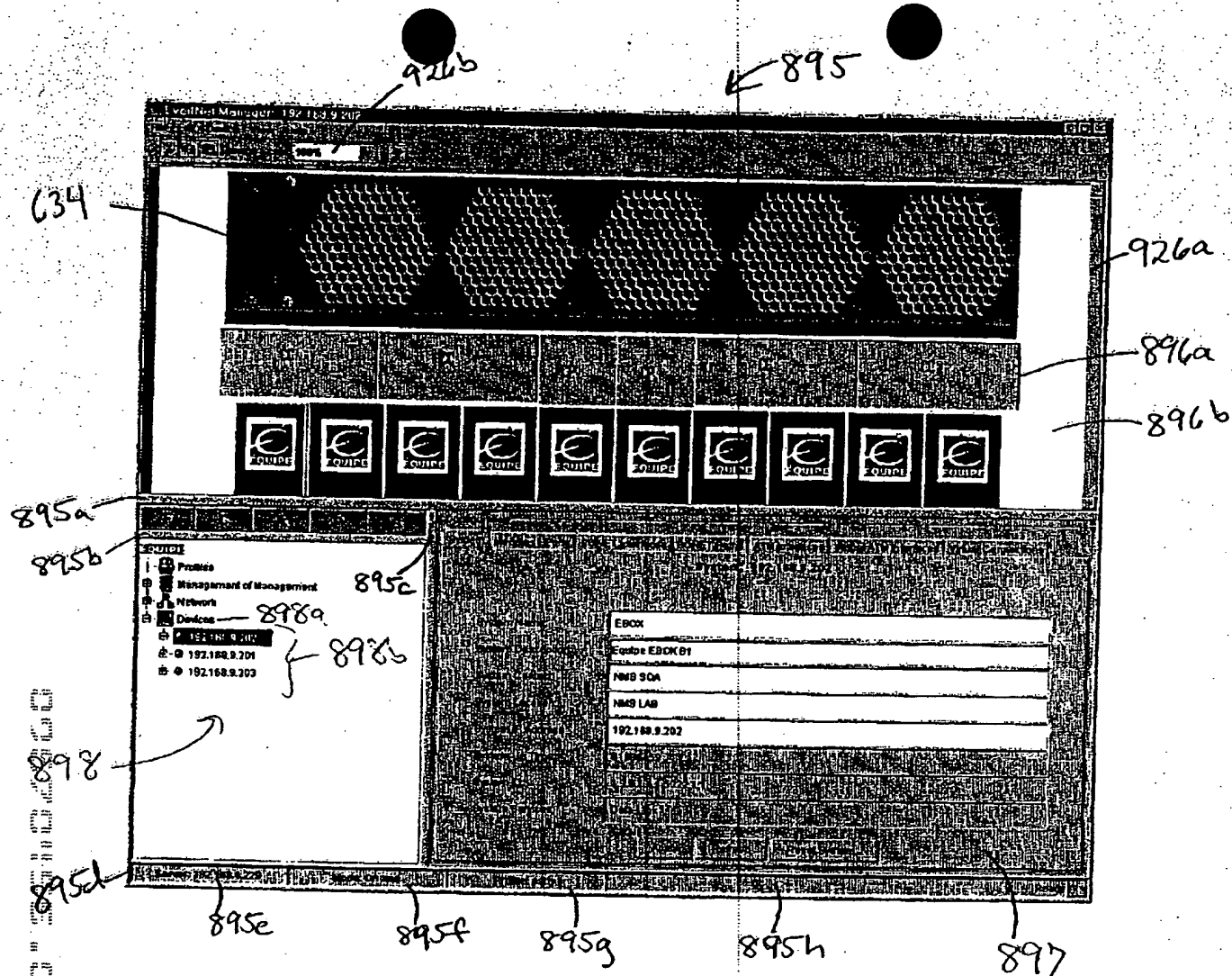


Fig. 4f

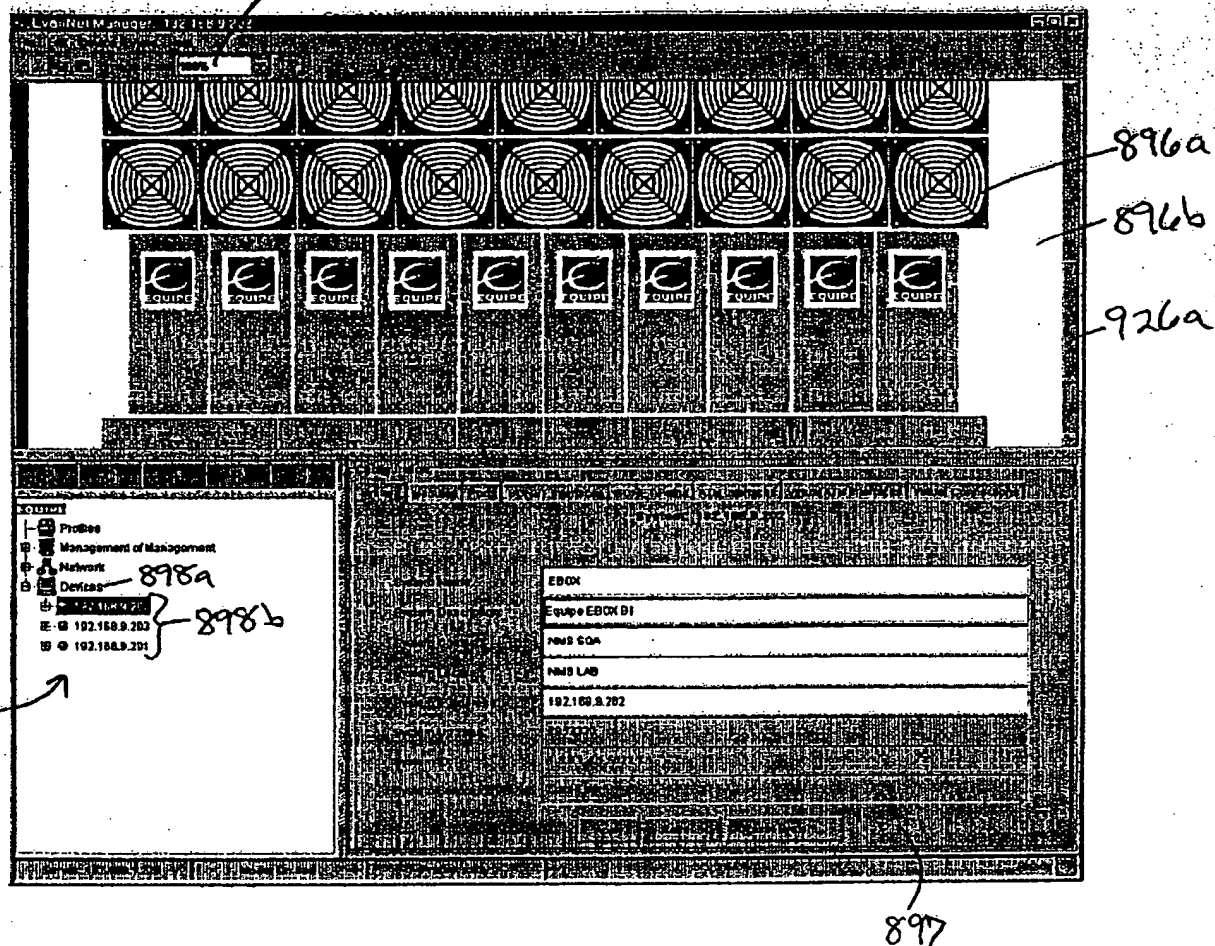


Fig. 4g

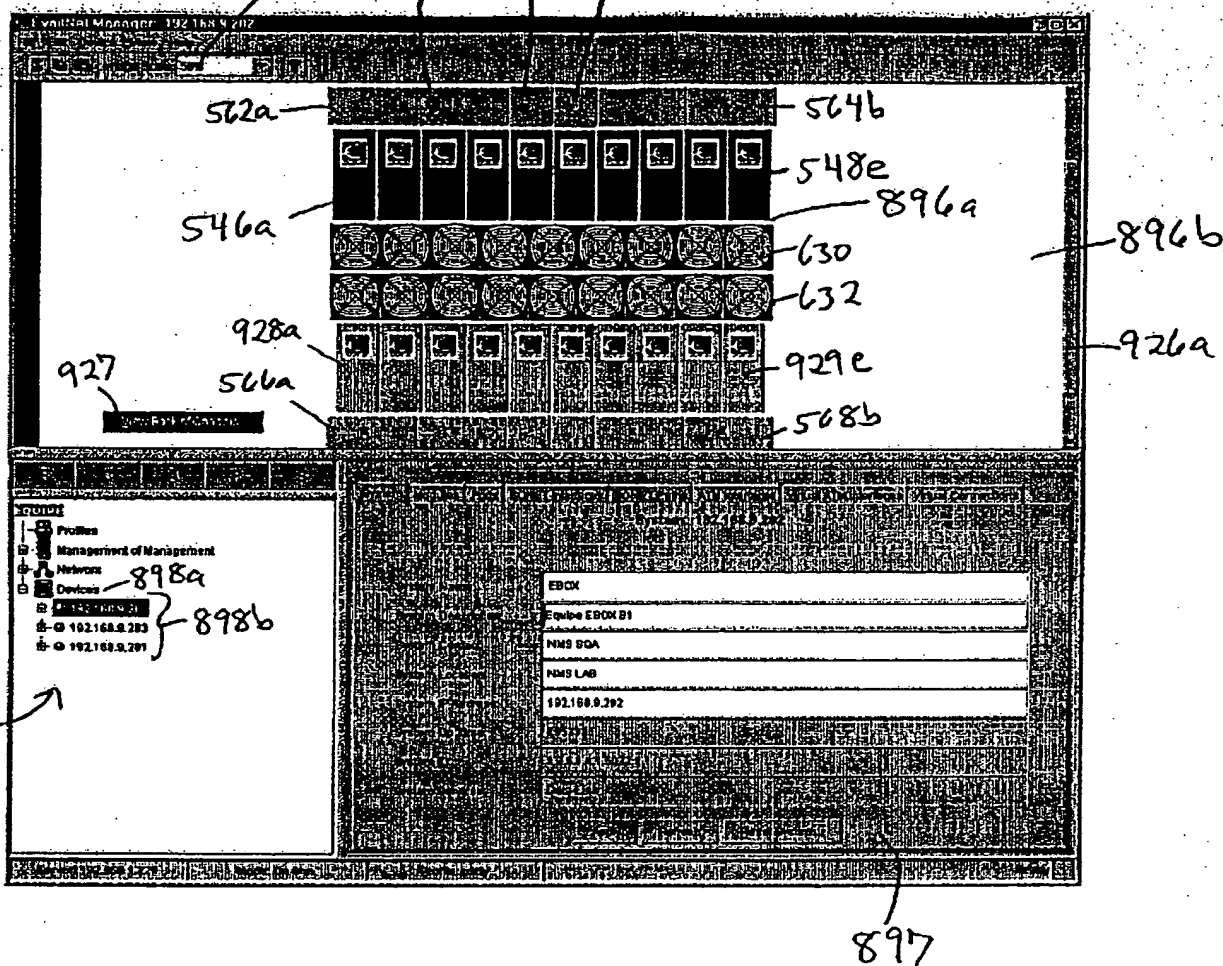


Fig. 4h

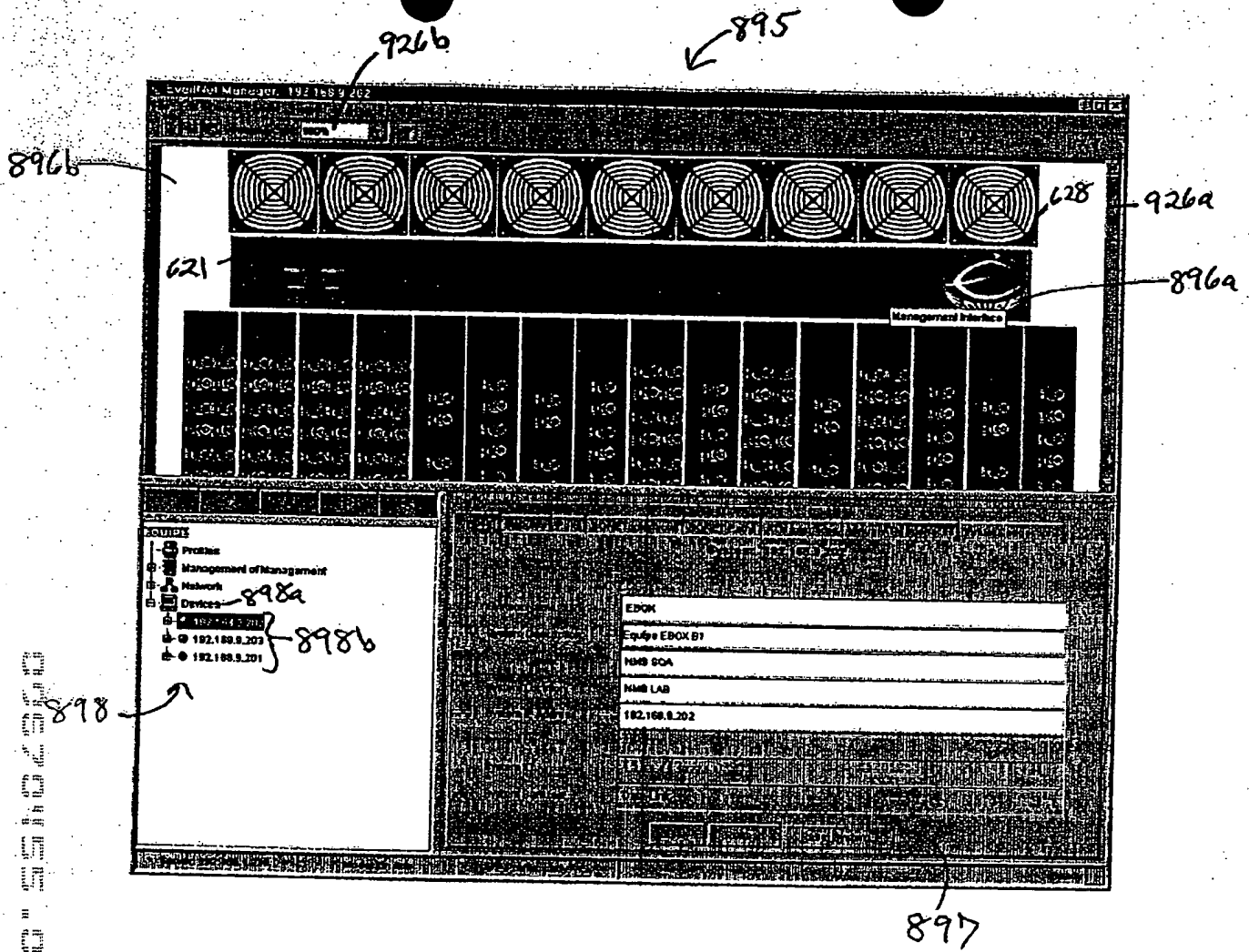


Fig. 4i

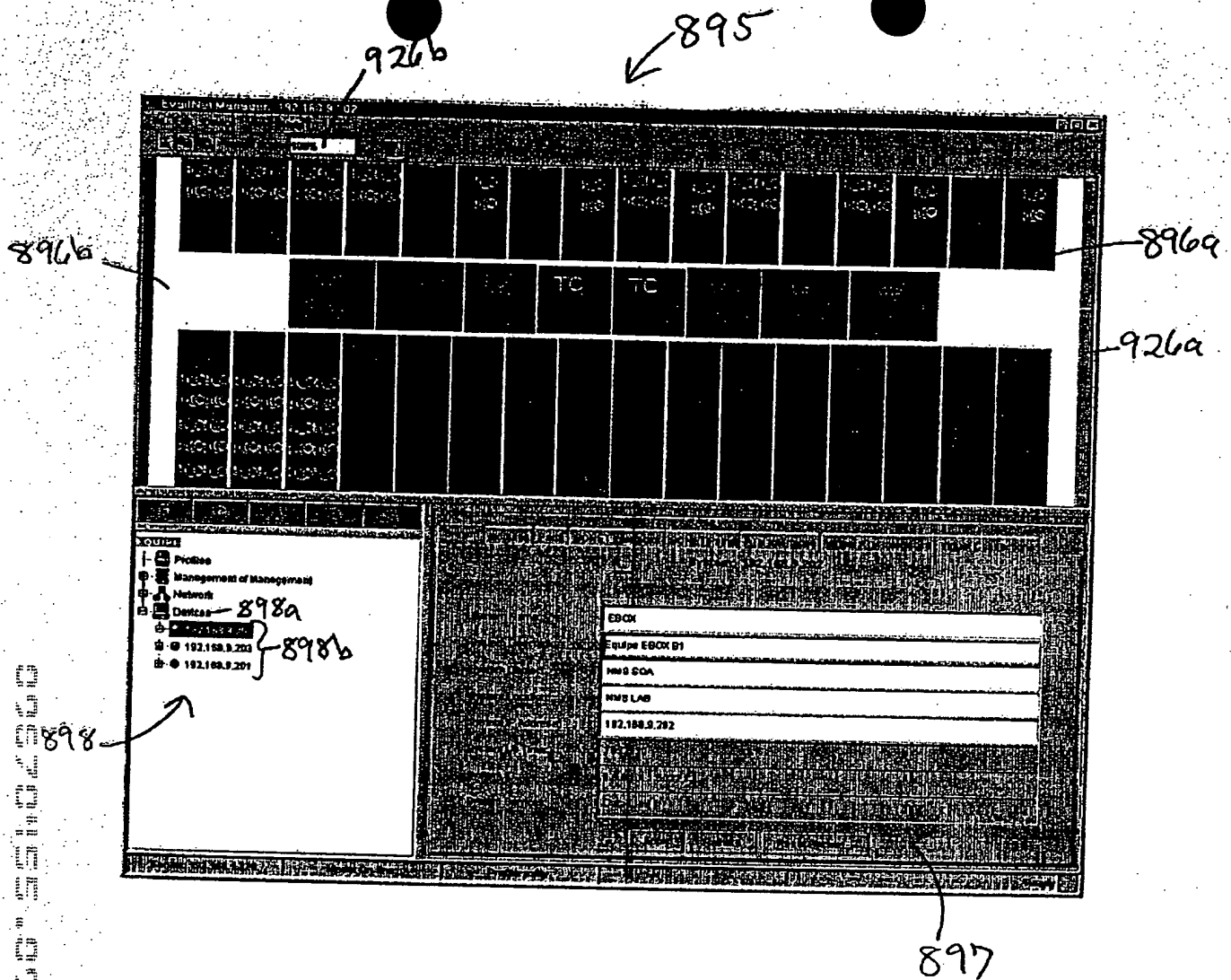


Fig. 4j

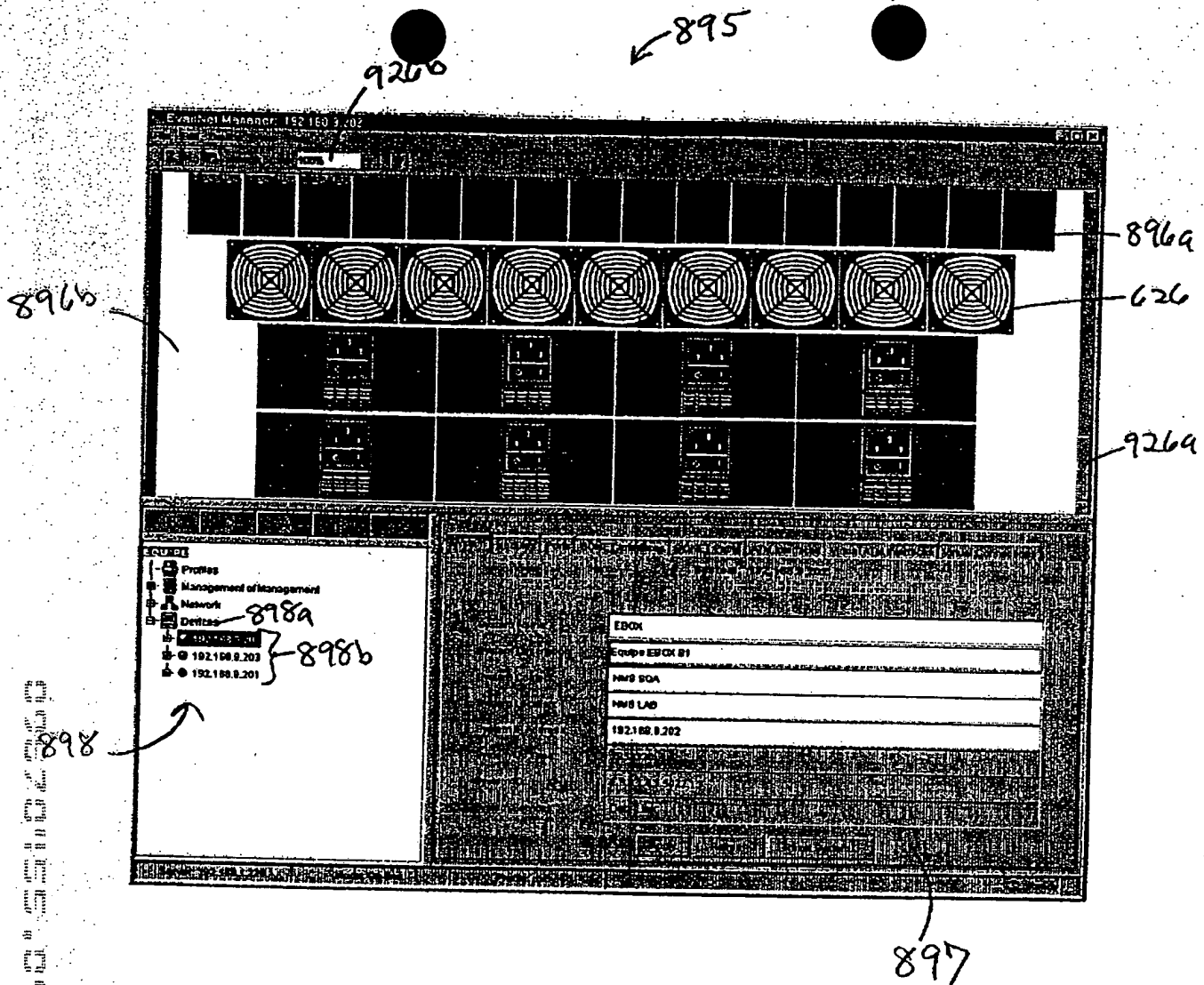


Fig. 4K

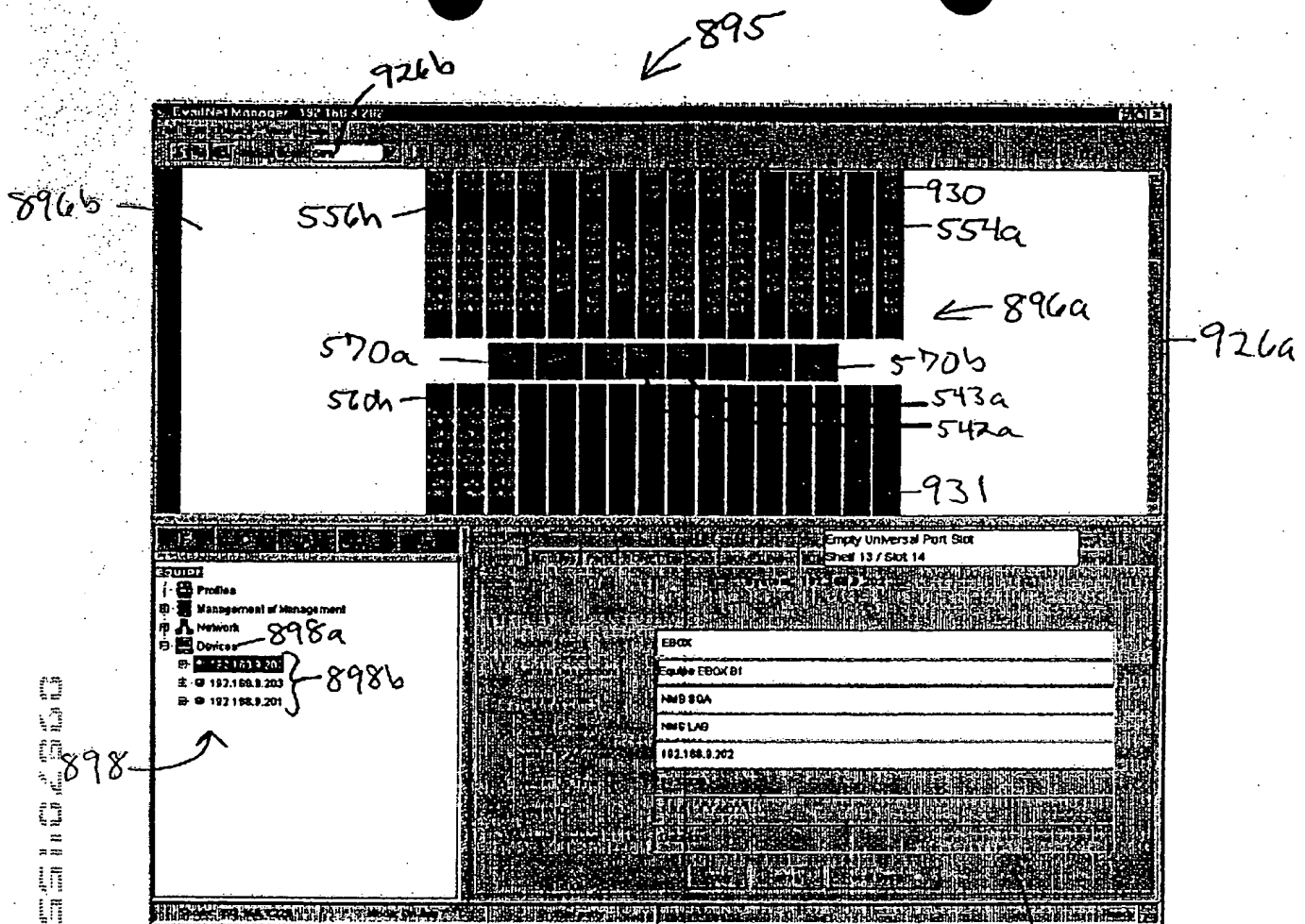


Fig. 4L

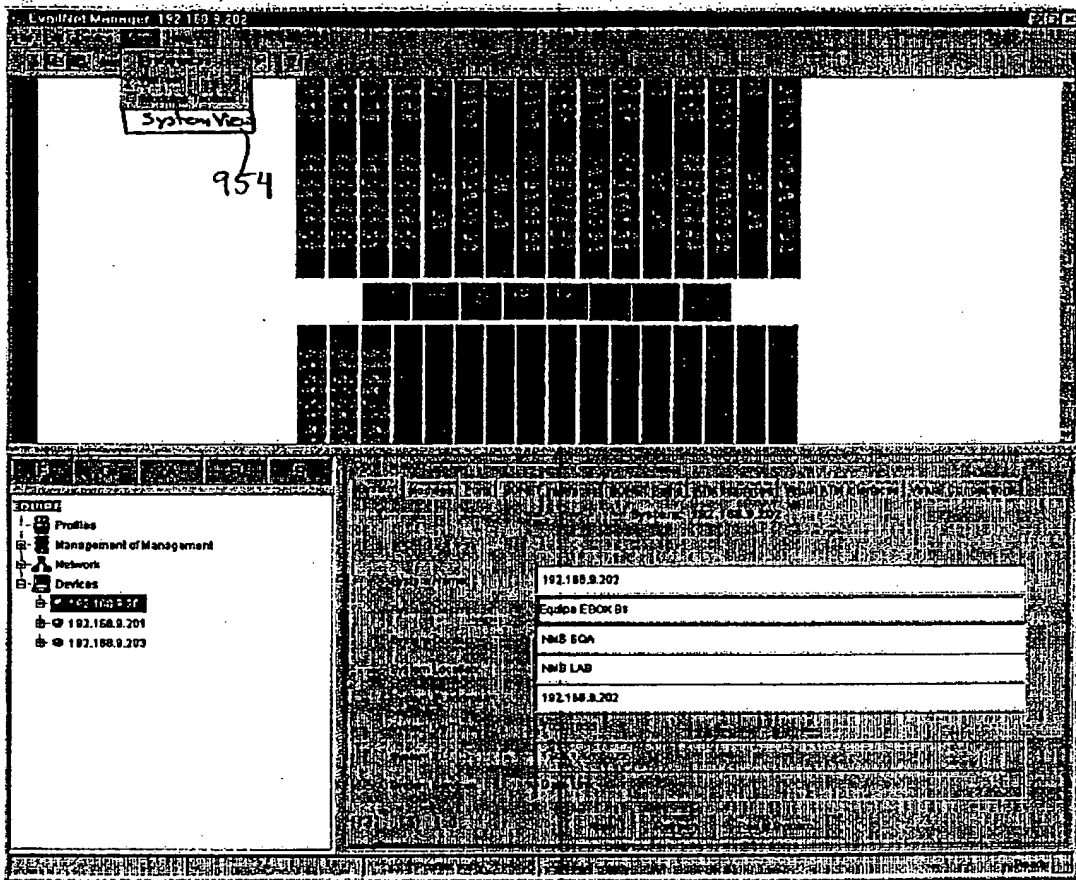


Fig. 4m

955

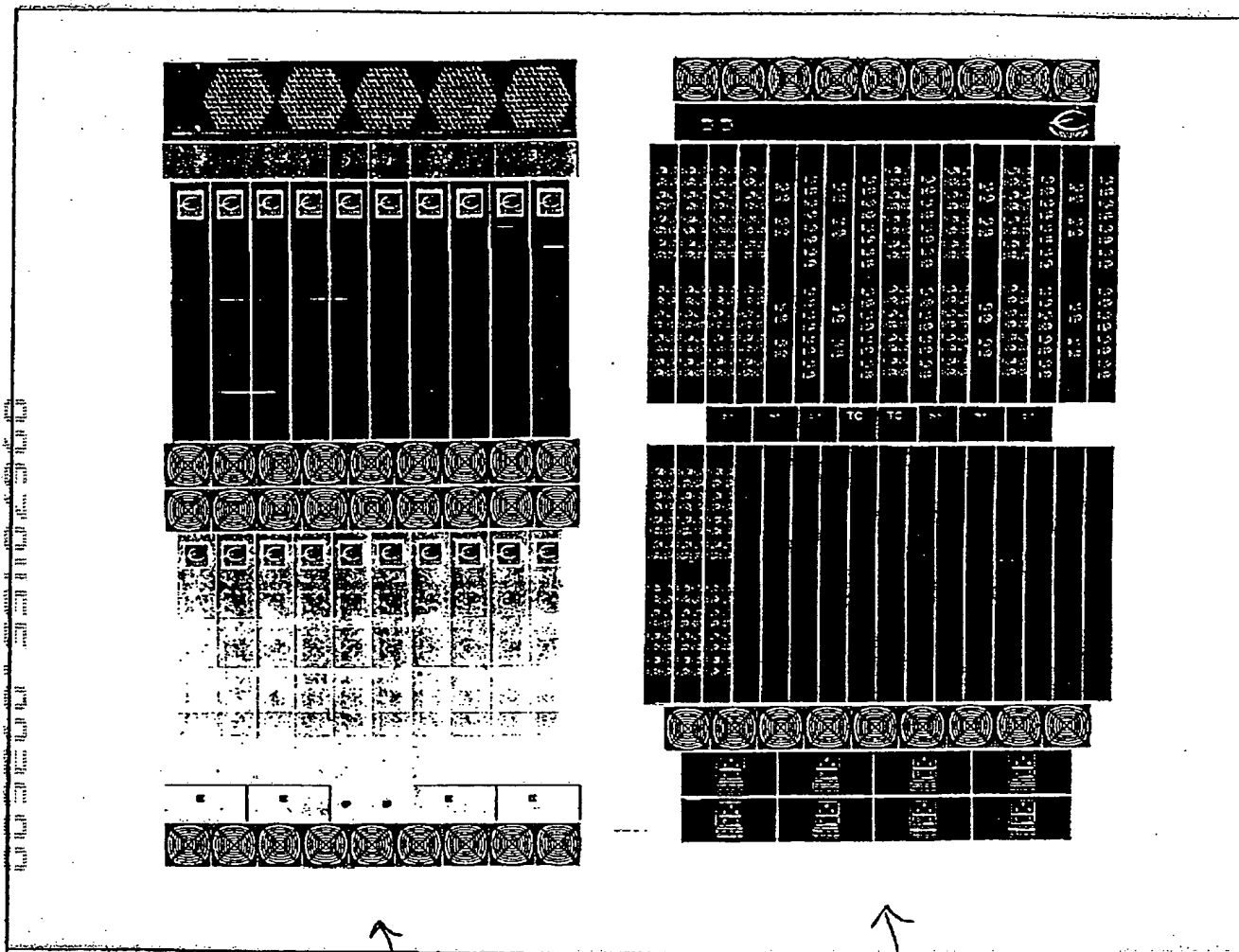


Fig. 4n

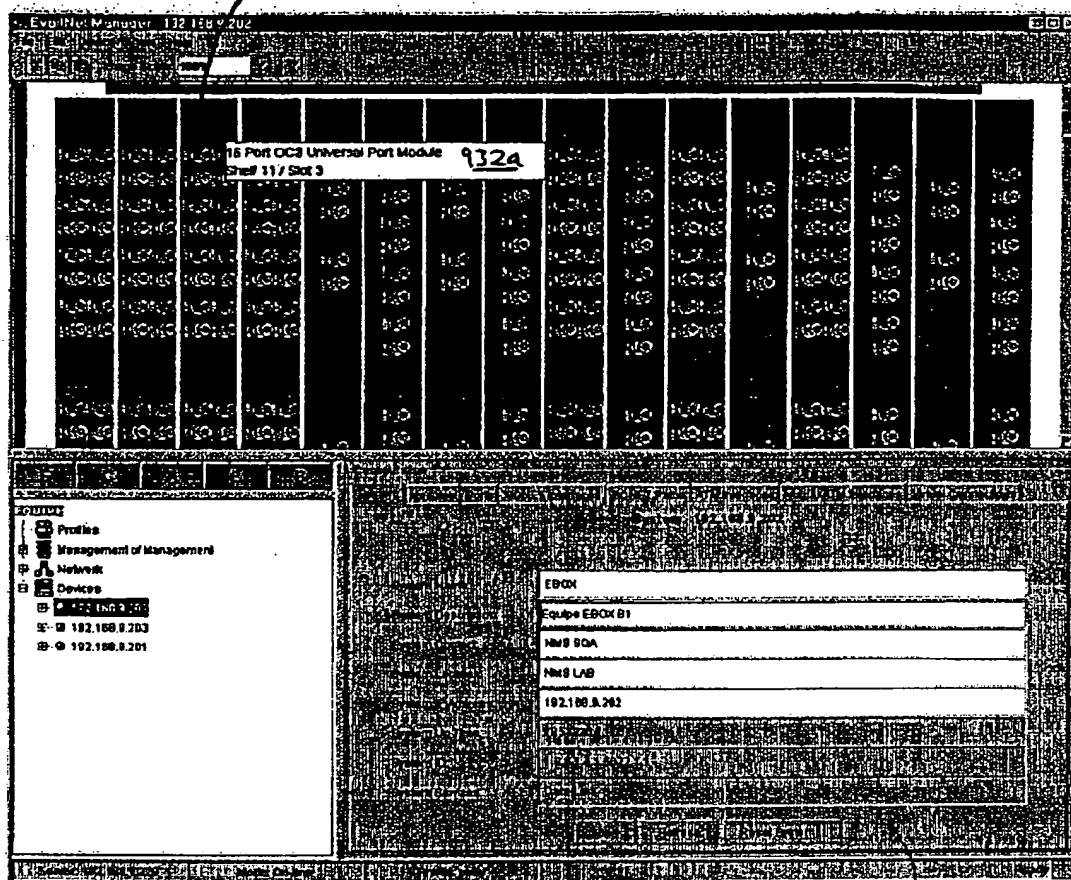


Fig. 40

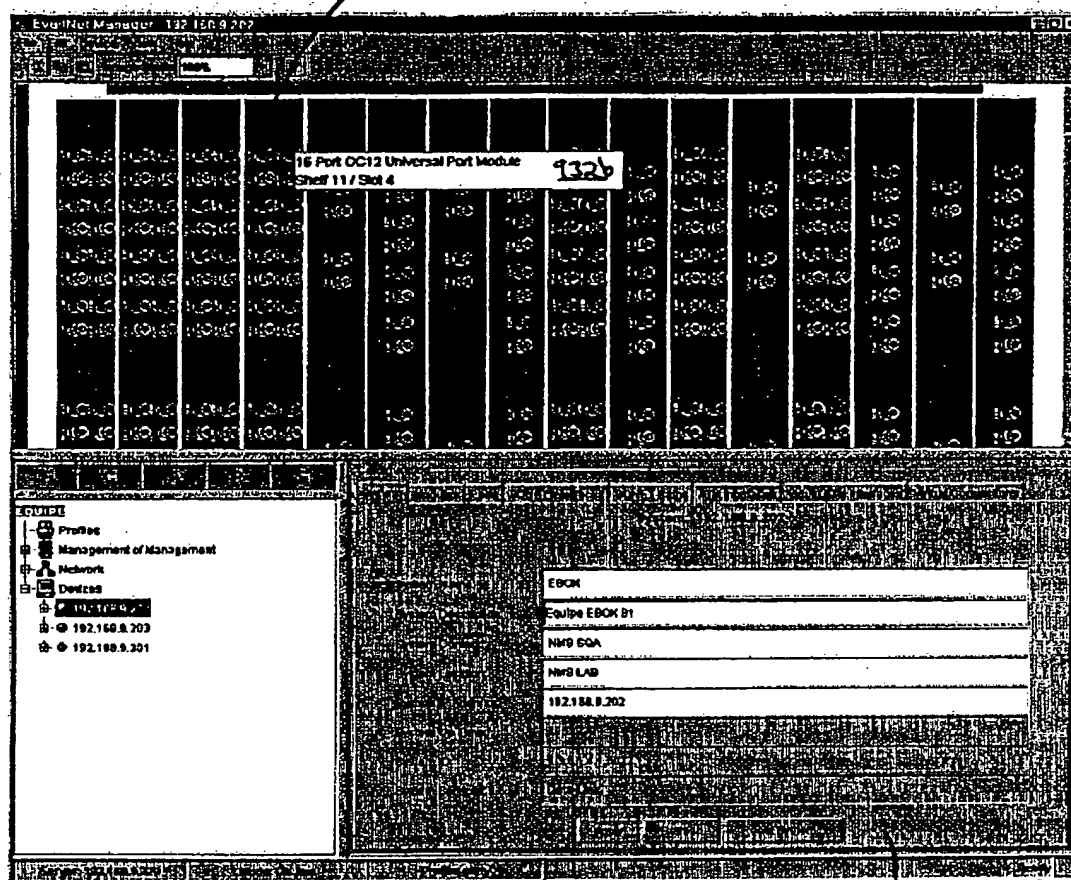


Fig. 4p

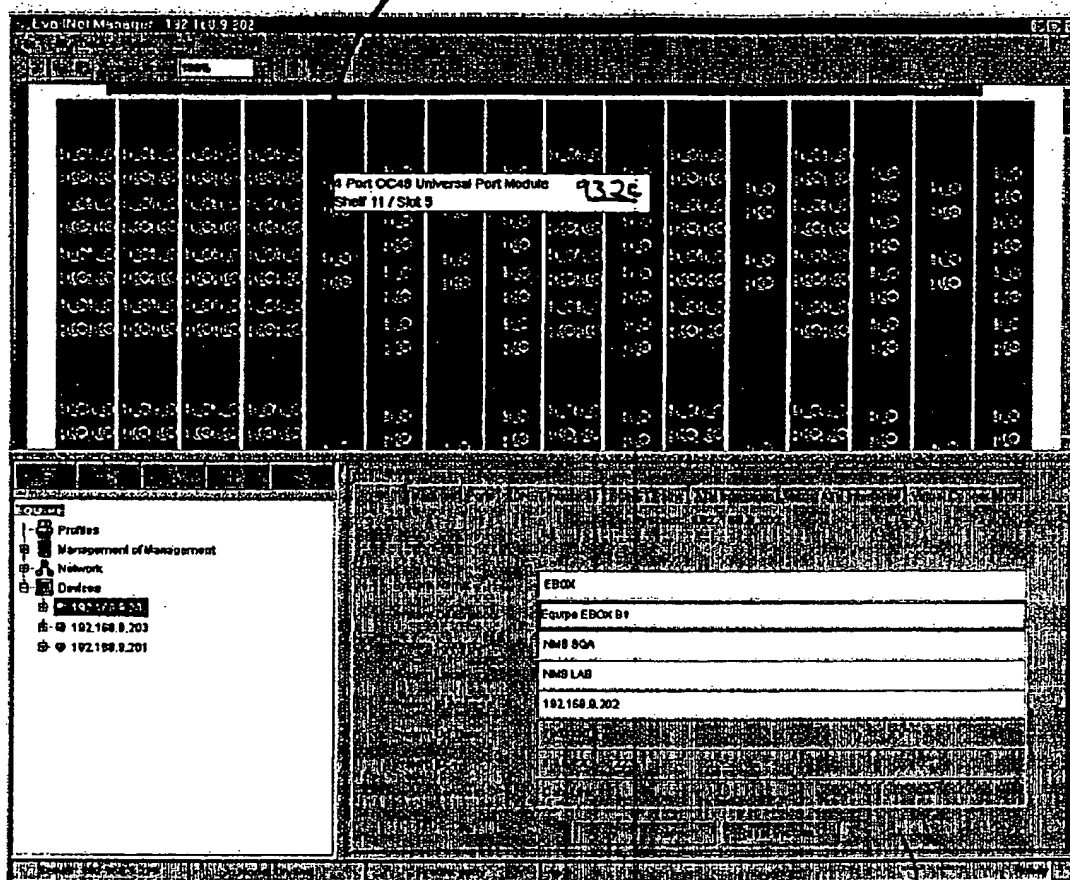


Fig. 4g

897

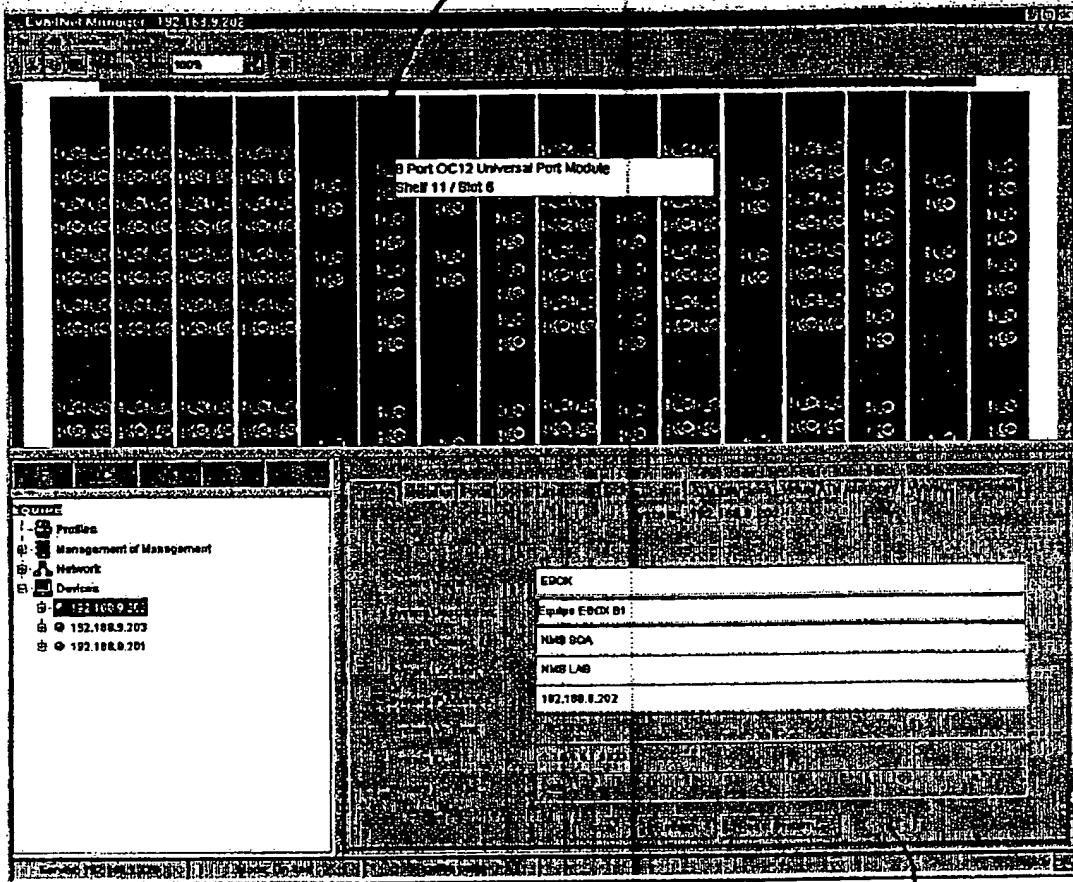
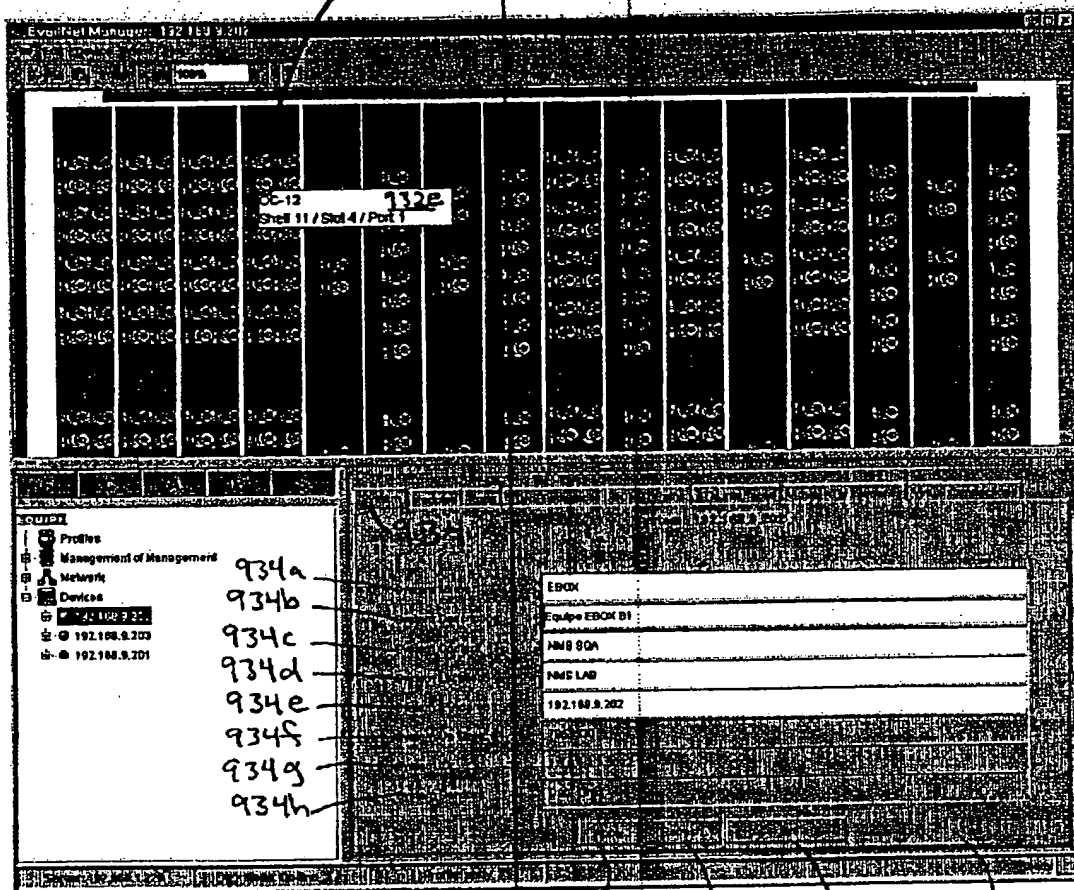


Fig. 4r



935a 935c 935b 897

Fig. 4s

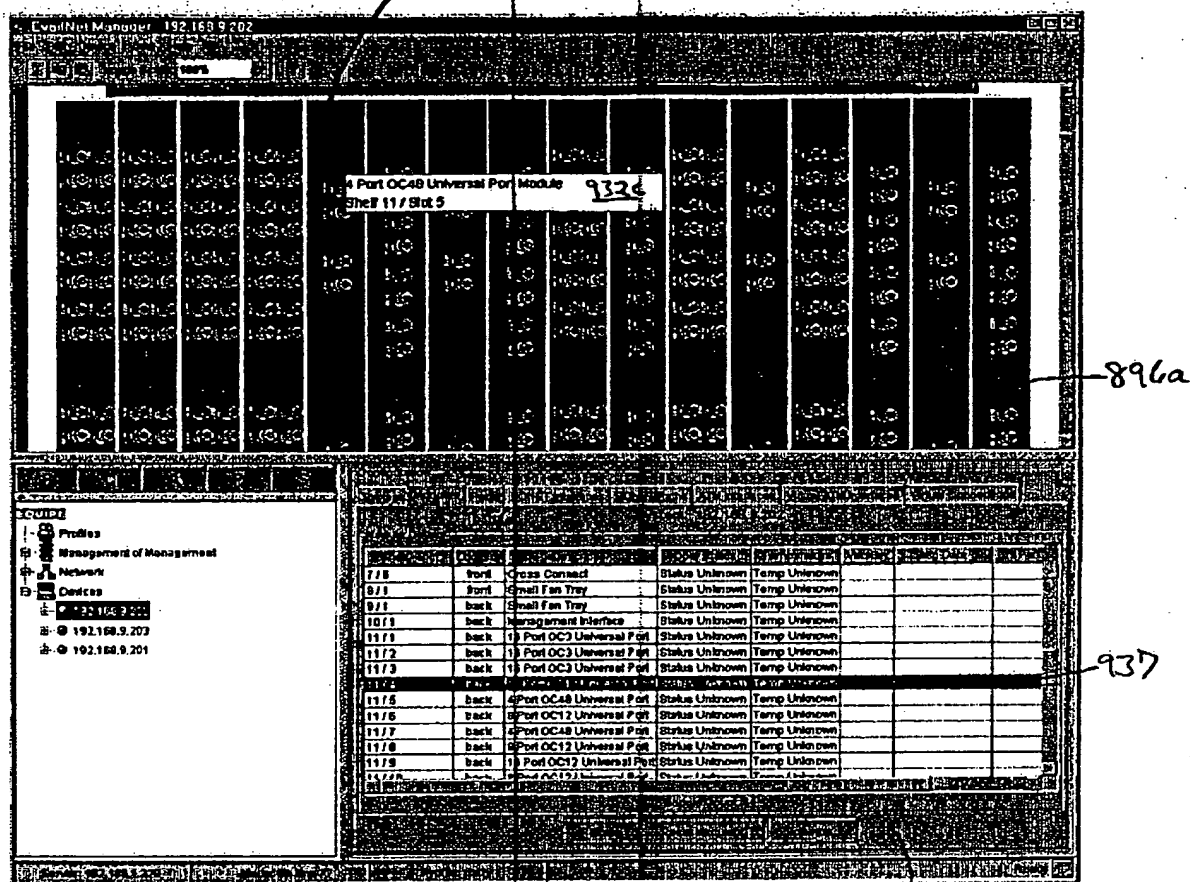


Fig. 4t

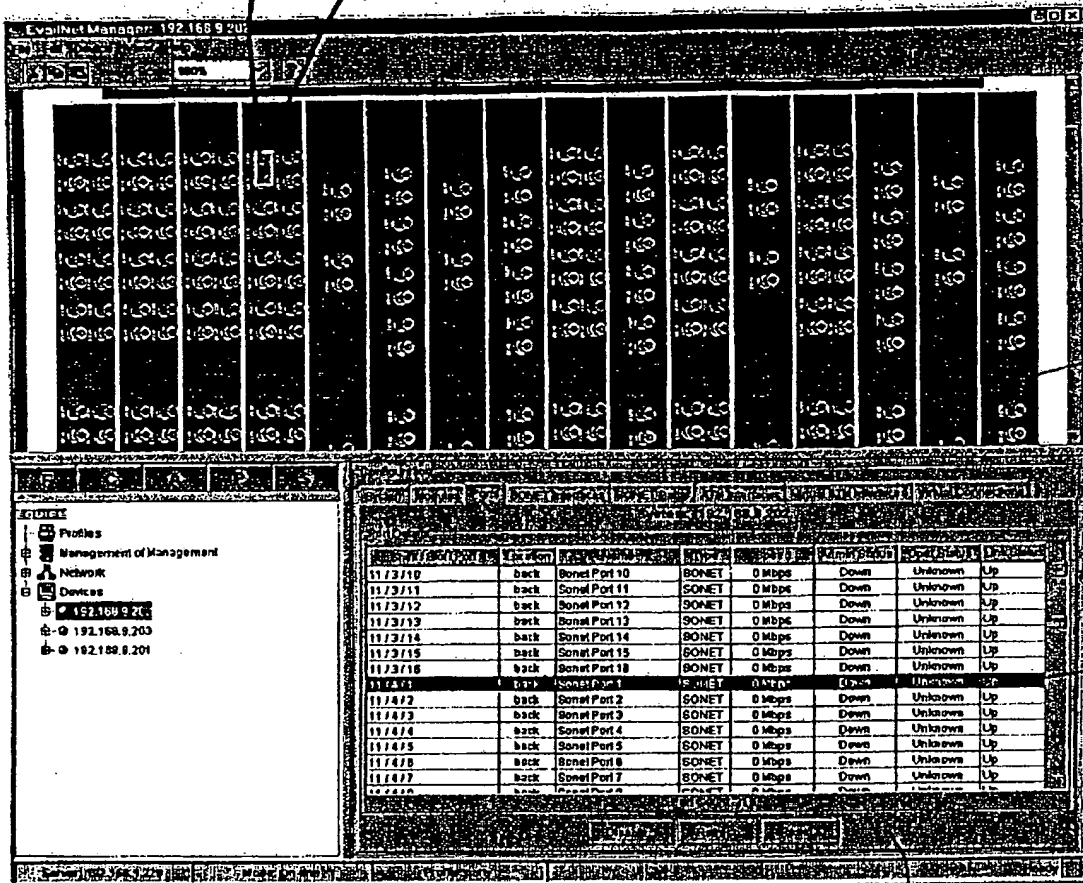
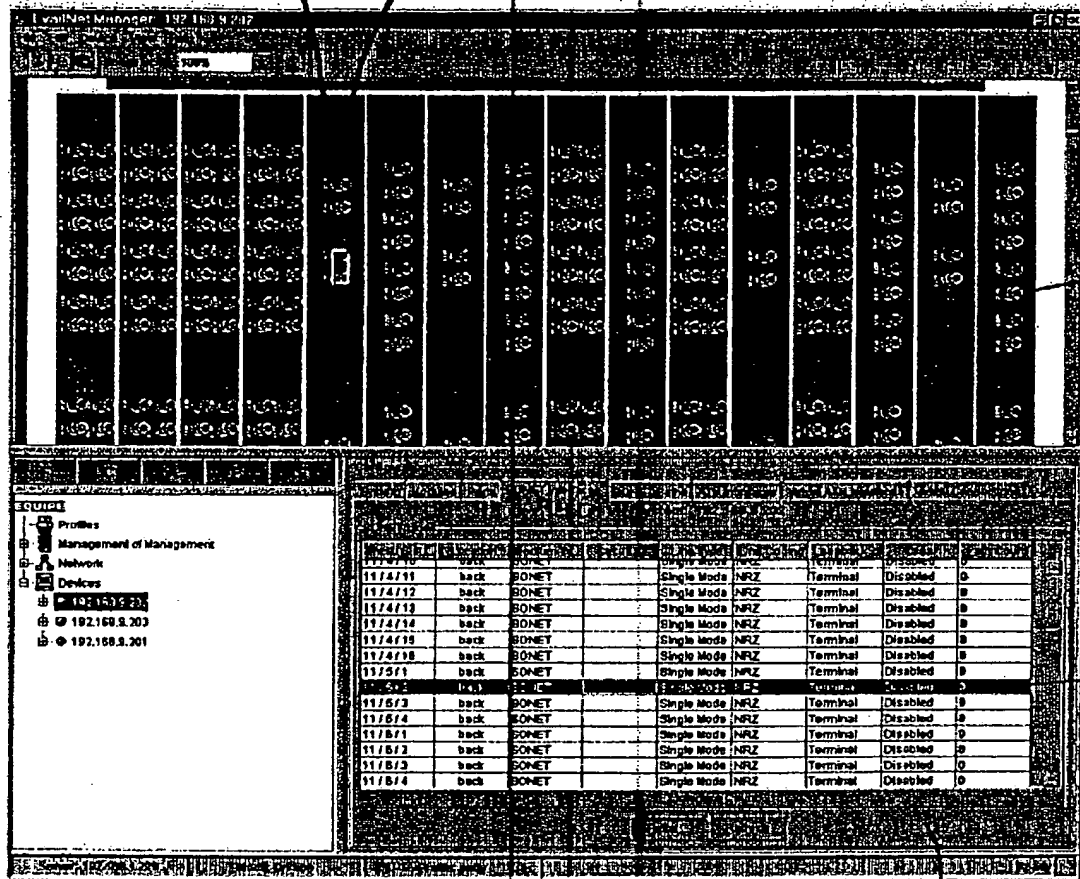


Fig. 4u



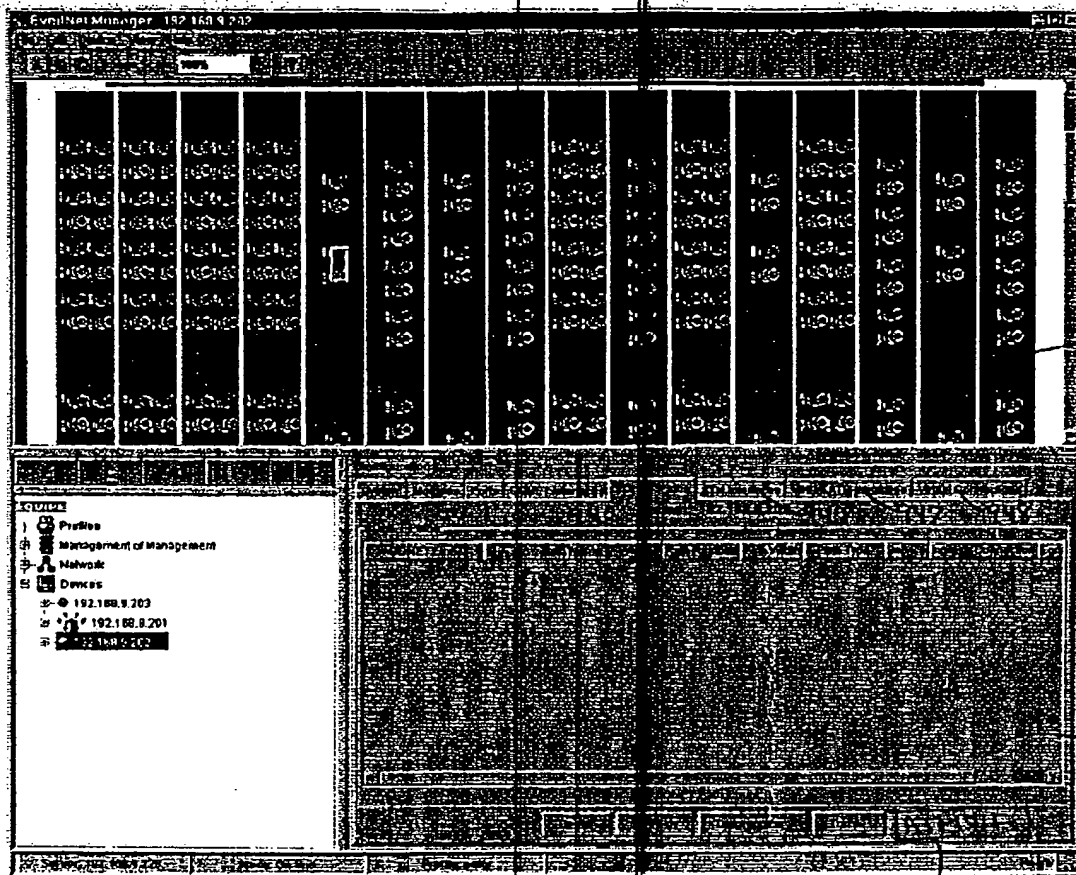


Fig. 4w

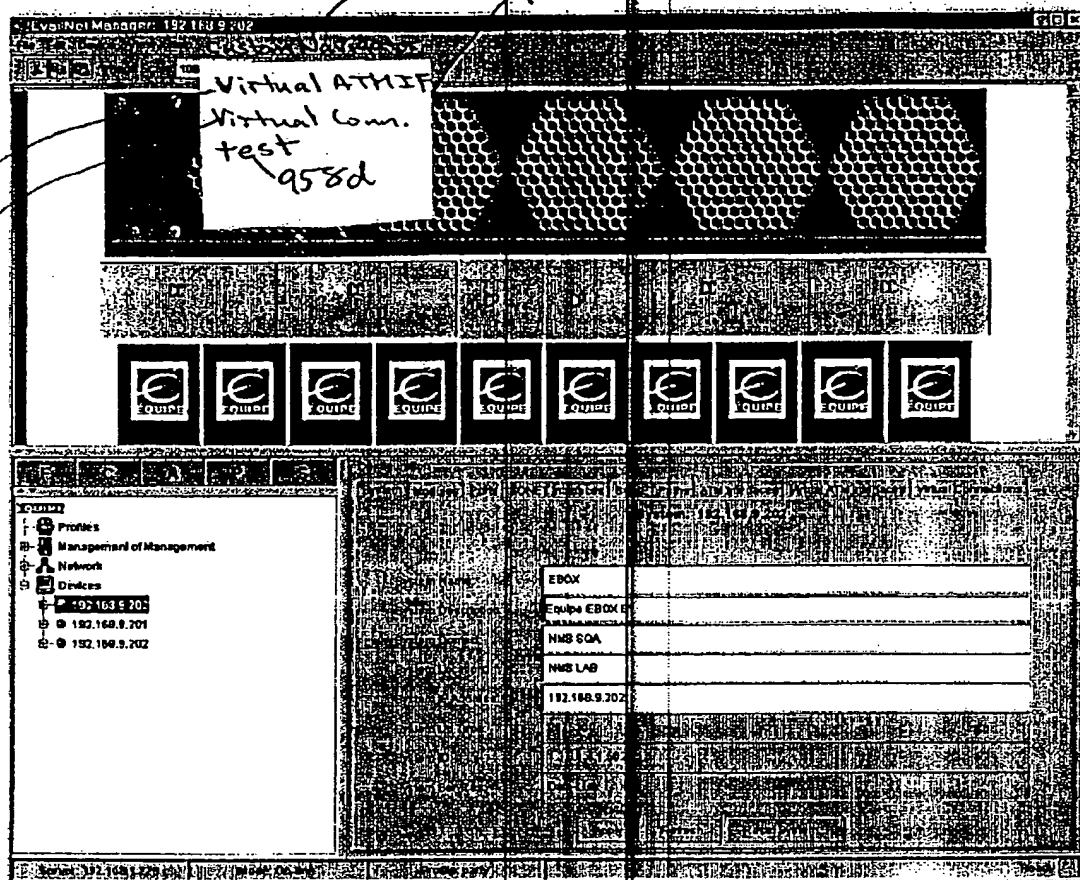


Fig. 4x

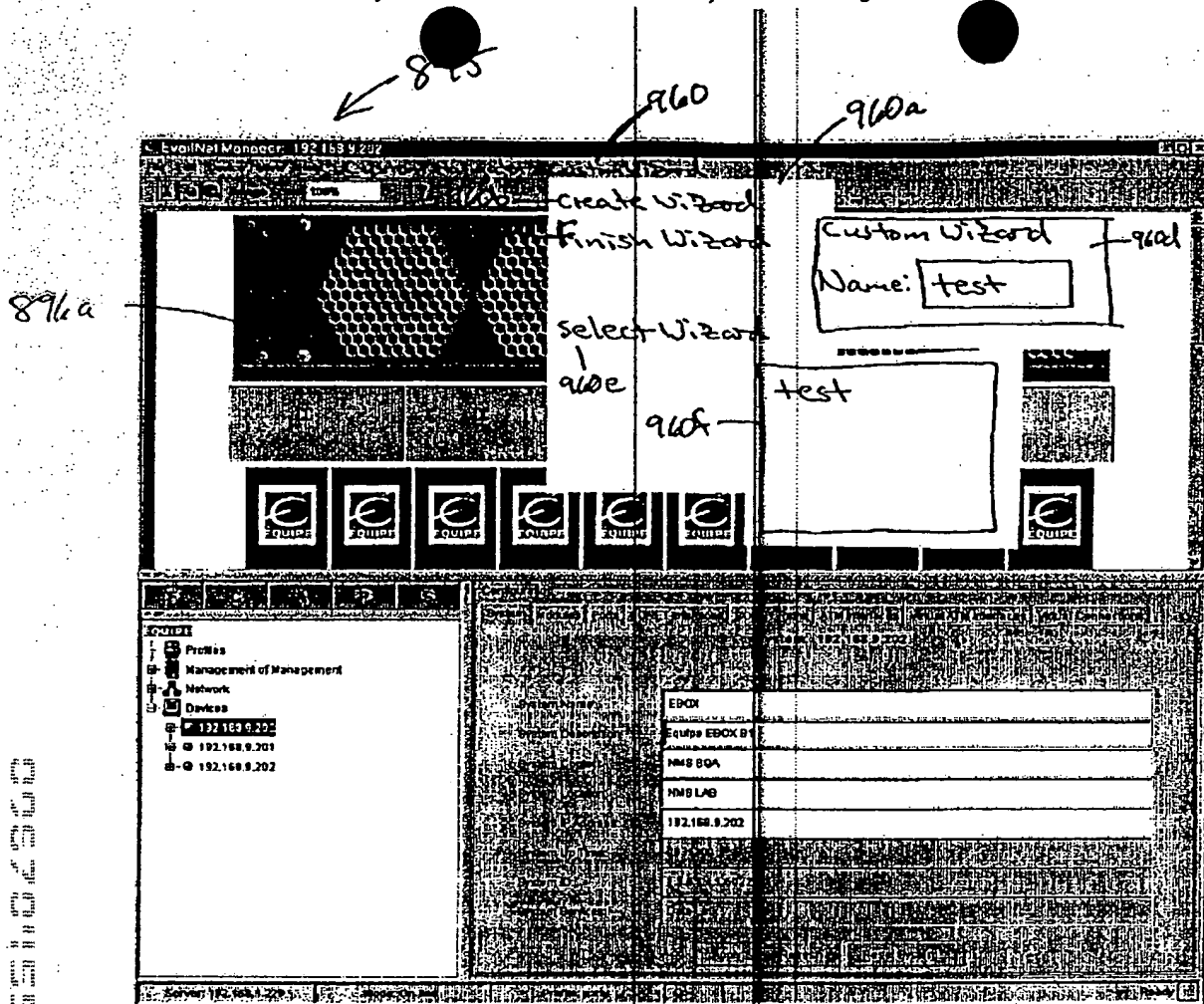
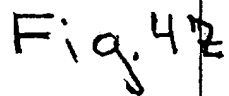


Fig. 4y



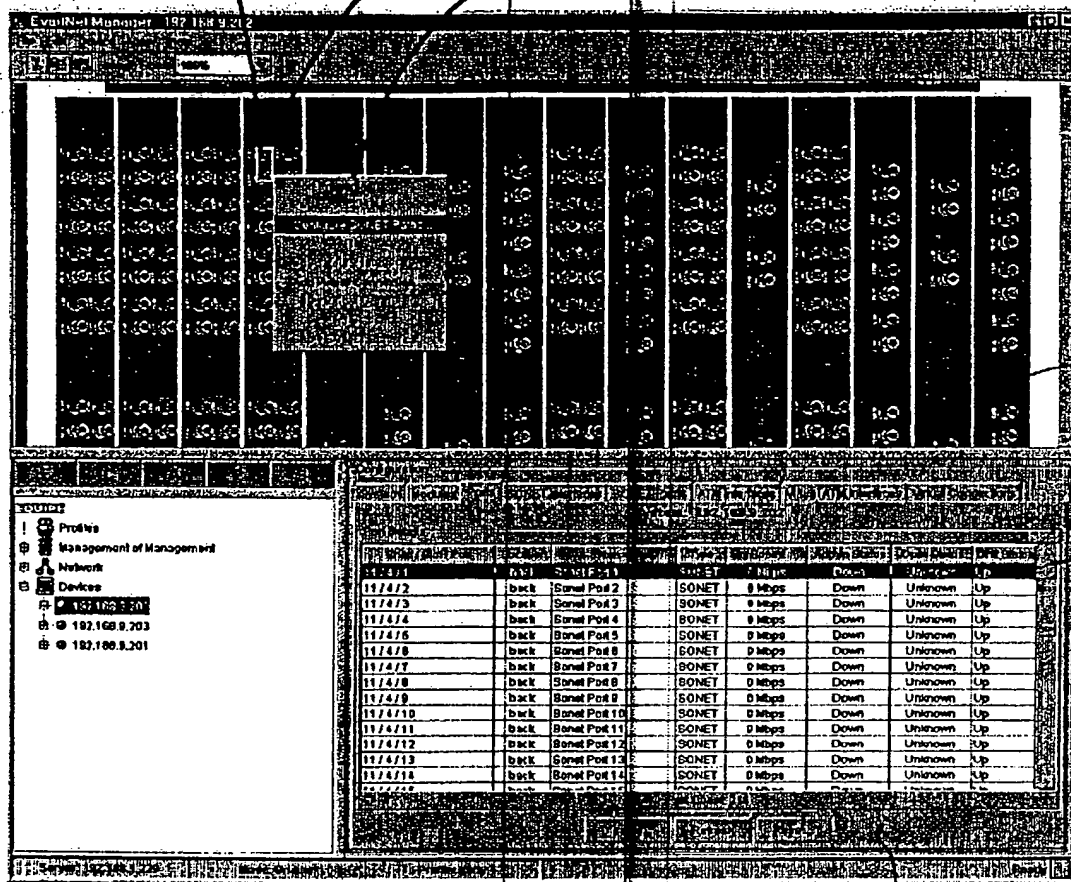


Fig. 5b

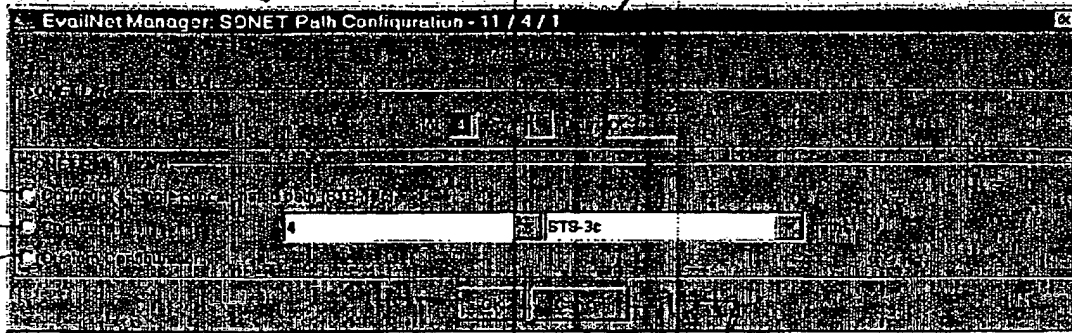
944

944b

944c

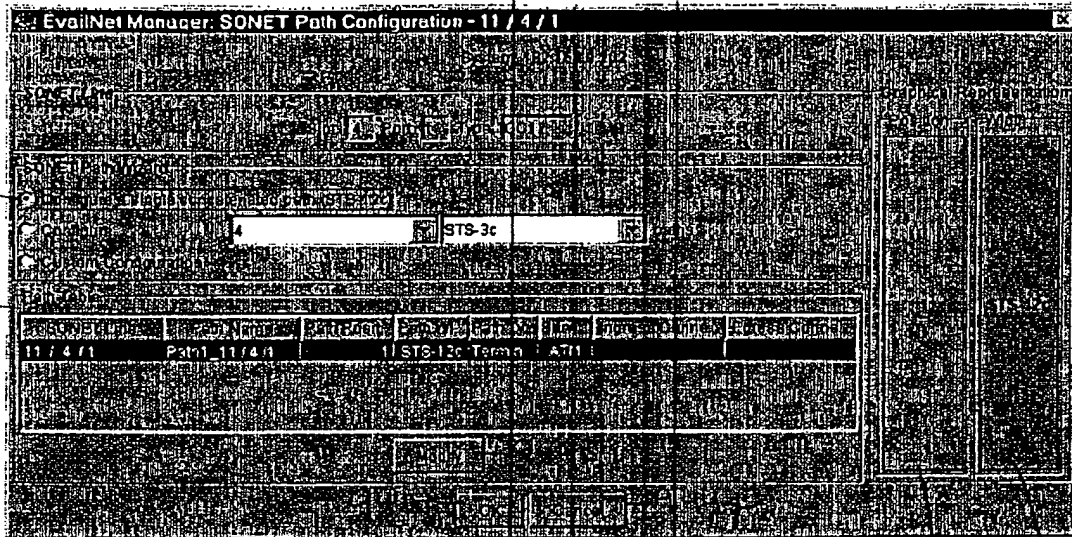
944d

944a



944b

944c



944

944e

944f

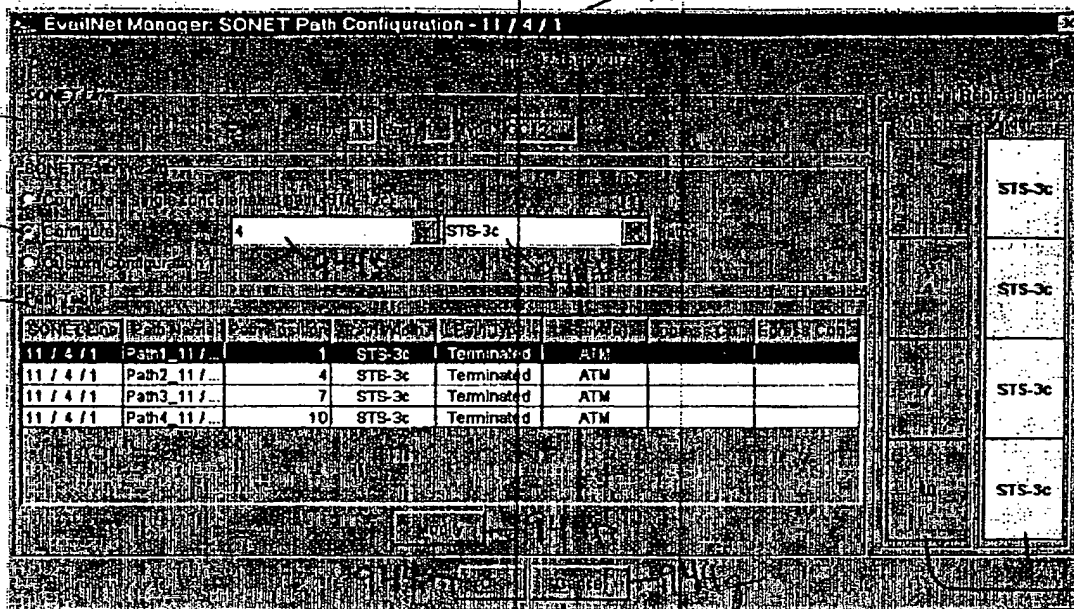
Fig. 5c

Fig. 5d

944a

944c

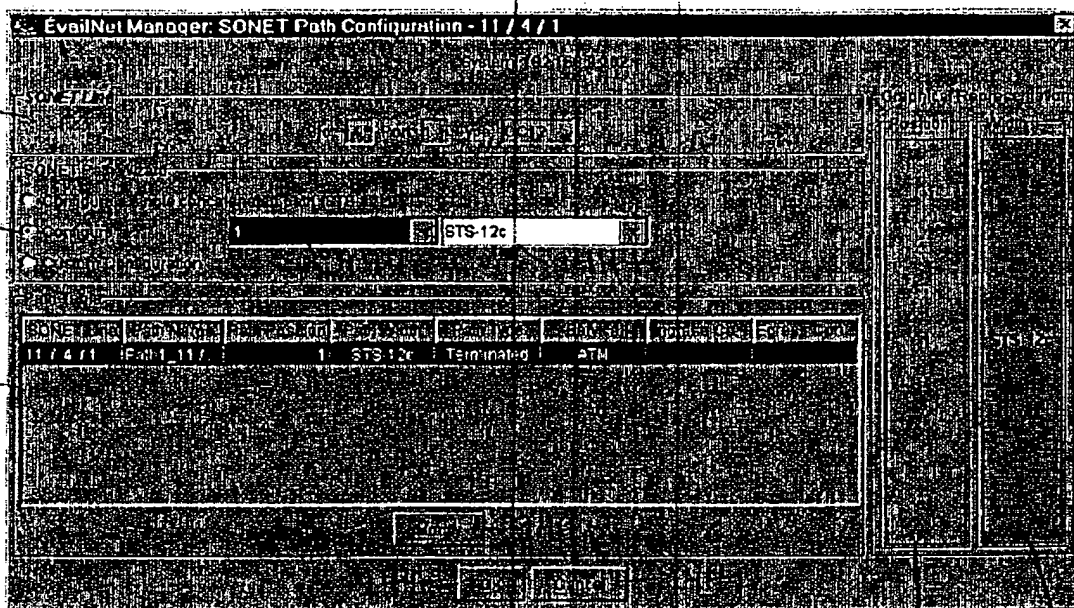
944g

944f
944e

944a

944c

944g



944

944e

944f

Fig. 5e

Fig. 5f

944

EvailNet Manager: SONET Path Configuration - 11 / 4 / 1

944a

944b

944h

STS-12c

STS-3c

944i

STS-3c - 944L

STS-3c - 944m

STS-3

944j

STS-3c

STS-3c

SONET PATH	PATH NAME	PROT. PATH	PROT. NAME	PROT. TYPE	PROT. CODE	PROT. CODE	PROT. CODE
11 / 4 / 1	Path1_11 /	1	STS-3c	Terminated	ATM		
11 / 4 / 1	Path2_11 /	4	STS-3c	Terminated	ATM		
11 / 4 / 1	Path3_11 /	7		Terminated	ATM		

944g

944f

944e

EvailNet Manager: SONET Path Configuration - 11 / 4 / 1

945a

945g

SONET PATH	PATH NAME	PROT. PATH	PROT. NAME	PROT. TYPE	PROT. CODE	PROT. CODE	PROT. CODE
Shelf 11/91...	Path1_11 /	1	3	2	1		
Shelf 11/91...	Path2_11 /	4	3	2	1		

945

945e

945f

Fig. 5g

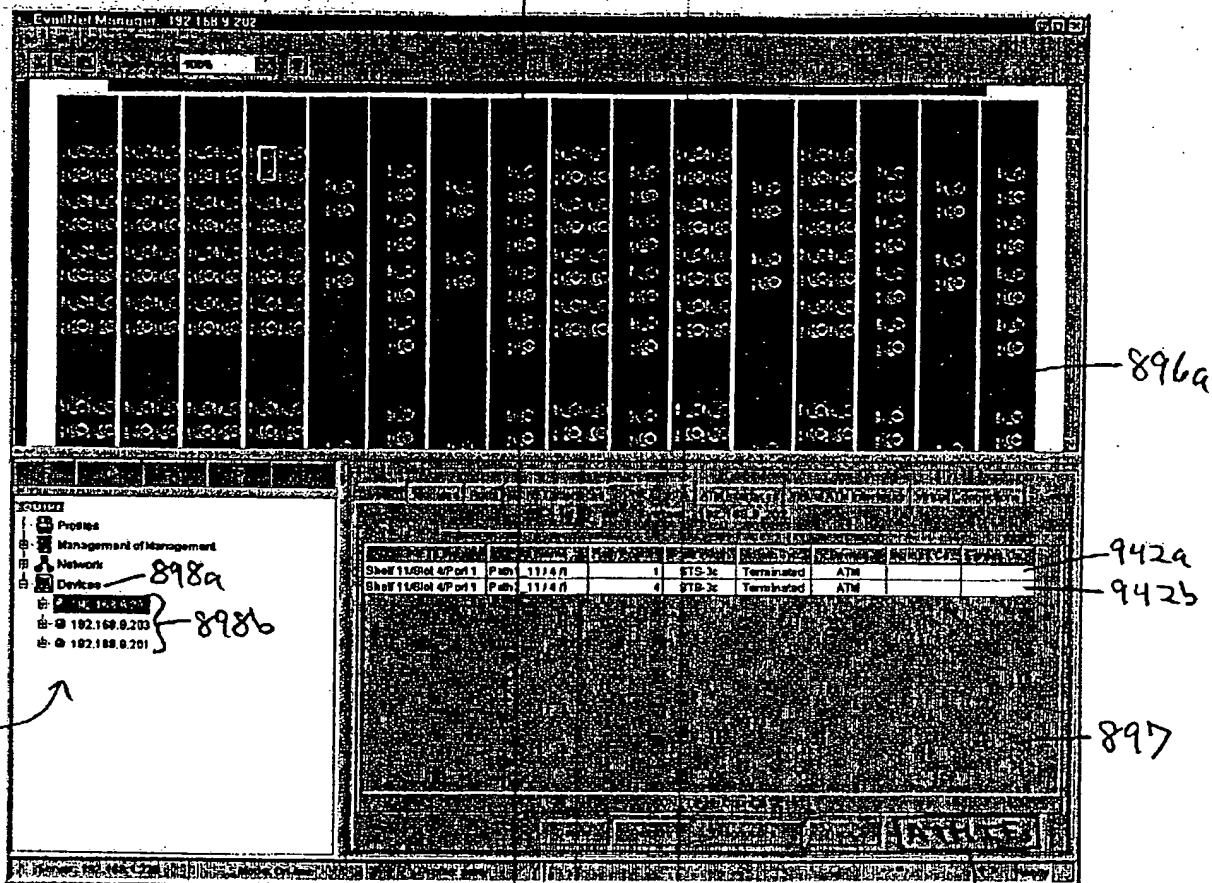


Fig. 5h

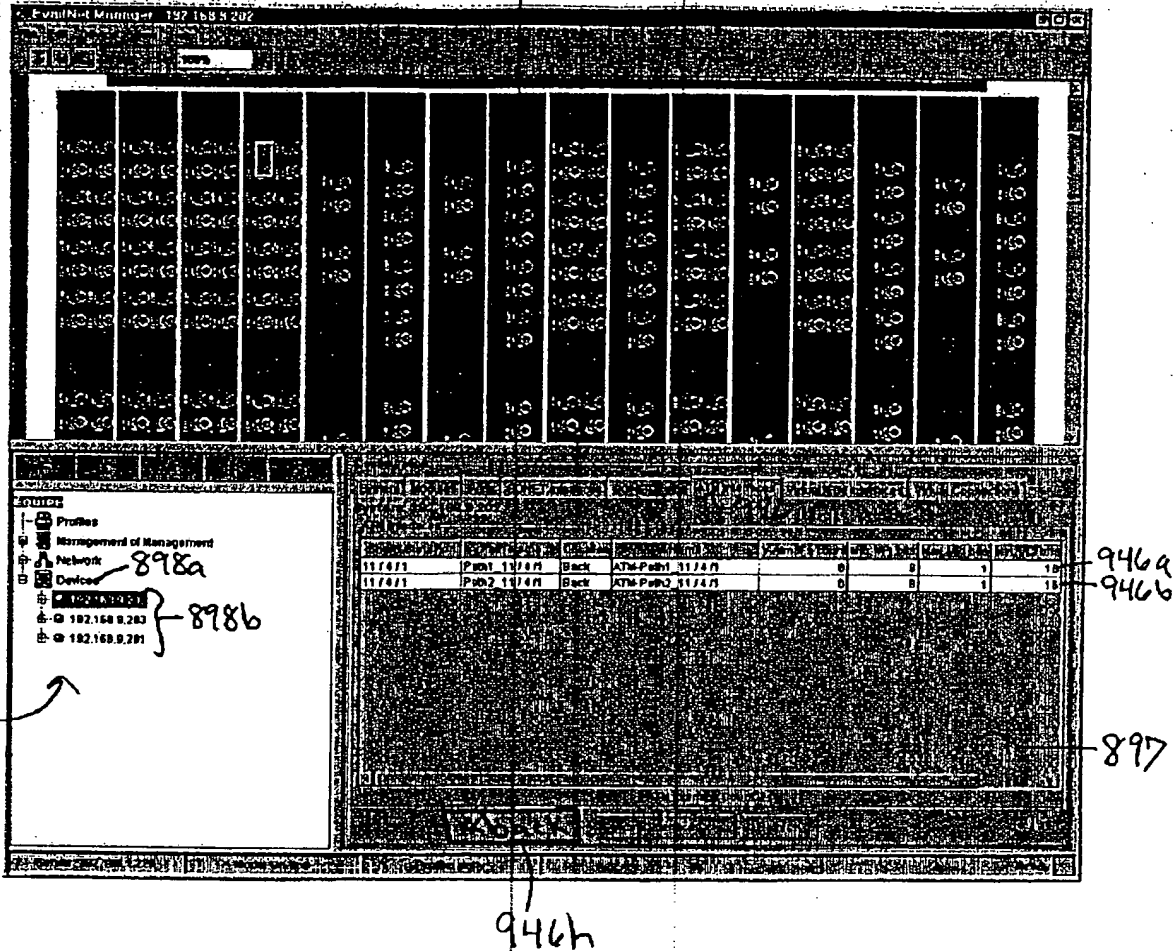


Fig. 5i

Fig. 5j

556d

941a

895

The screenshot shows the EquiNet Manager interface. The main window displays a grid of data with columns for various parameters. The sidebar on the left contains a tree view with the following items:

- Profiles
- Management of Management
- Network
 - 898a
 - 132.168.9.200 } 898b
 - 132.168.9.201

The main grid contains the following data:

IP Address	Device	Protocol	Mode	Terminal	Status	Value
117.2.1.1	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.2	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.3	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.4	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.5	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.6	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.7	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.8	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.9	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.10	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.11	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.12	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.13	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.14	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.15	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.16	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.17	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.18	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.19	back	SONET	Single Mode	NRZ	Terminal	Disabled 0
117.2.1.20	back	SONET	Single Mode	NRZ	Terminal	Disabled 0

896a

949a

898

940a

Fig. 5K

The screenshot shows the EquiNet Manager interface for SONY Path Configuration. The main window displays a configuration table with the following data:

Path	Device	Protocol	Mode	Terminal	Status	Value
1	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
2	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
3	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
4	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
5	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
6	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
7	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
8	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
9	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
10	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
11	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
12	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
13	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
14	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
15	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
16	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
17	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
18	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
19	back	SONY	Single Mode	NRZ	Terminal	Disabled 0
20	back	SONY	Single Mode	NRZ	Terminal	Disabled 0

944a

944b

944c

944d

944

Fig. 5l

944

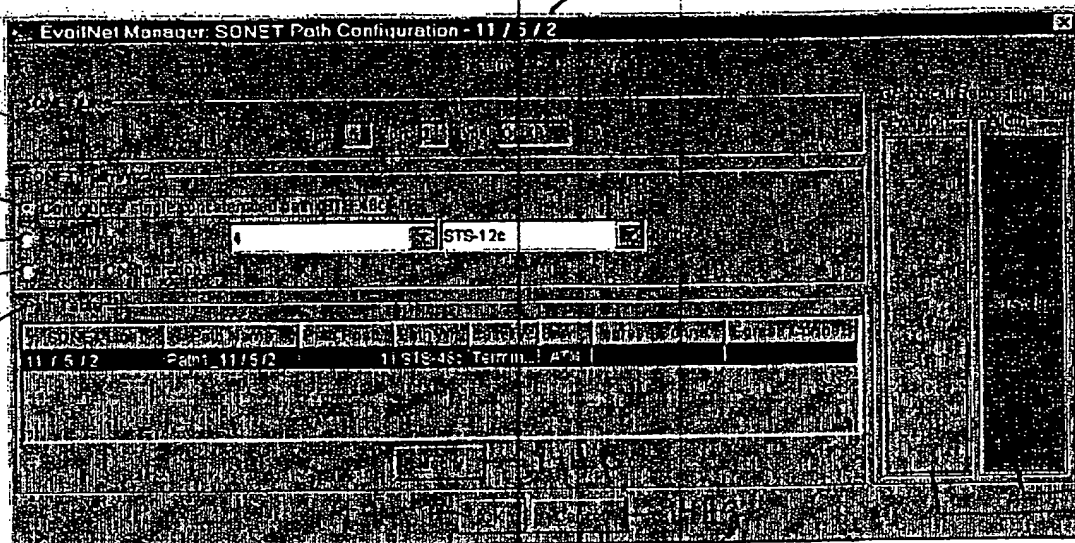
944a

944b

944c

944d

944g



944f

944e

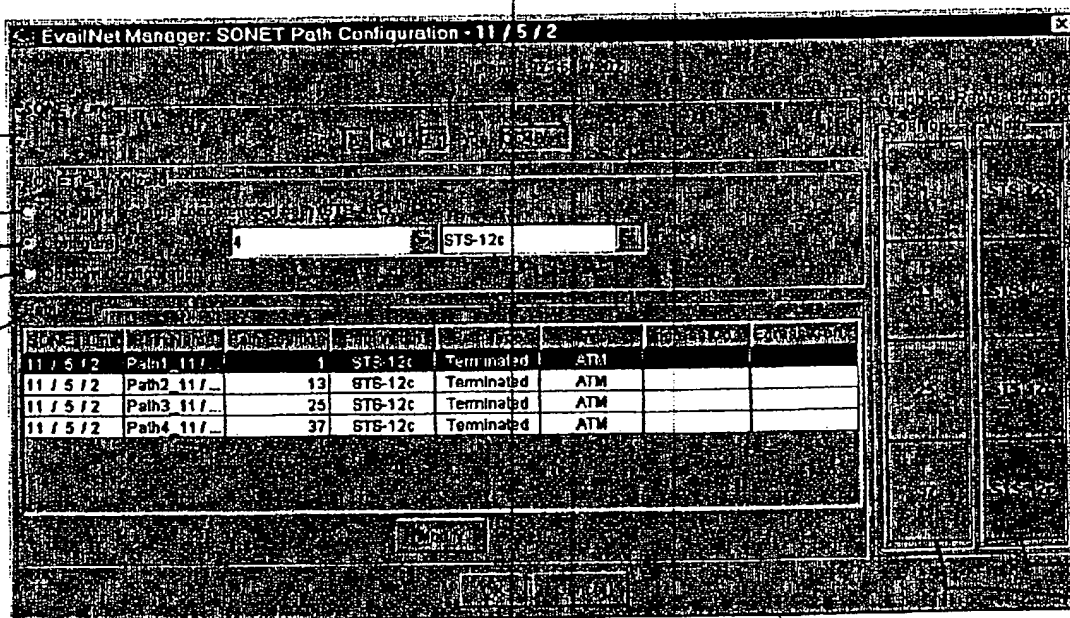
944a

944b

944c

944d

944g



944f

944e

944

Fig. 5m

Fig. 5n

944

944a

944b

944c

944d

944g

EvailNet Manager: SONET Path Configuration - 11/5/2

Path	Path Name	Path ID	Path Type	Path Status	Path Description
1	Path1 11/5/2	1	STS-48c	Termi	ATM
2	Path2 11/5/2	4	STS-48c	Termi	ATM
3	Path3 11/5/2	7	STS-48c	Termi	ATM
4	Path4 11/5/2	10	STS-48c	Termi	ATM
5	Path5 11/5/2	13	STS-48c	Termi	ATM
6	Path6 11/5/2	16	STS-48c	Termi	ATM
7	Path7 11/5/2	19	STS-48c	Termi	ATM

944f
944e

944a

944b

944c

944d

944g

EvailNet Manager: SONET Path Configuration - 11/5/2

Path	Path Name	Path ID	Path Type	Path Status	Path Description
1	Path1 11/5/2	1	STS-3c	Termi	ATM
2	Path2 11/5/2	4	STS-3c	Termi	ATM
3	Path3 11/5/2	7	STS-3c	Termi	ATM
4	Path4 11/5/2	10	STS-3c	Termi	ATM
5	Path5 11/5/2	13	STS-3c	Termi	ATM
6	Path6 11/5/2	16	STS-3c	Termi	ATM
7	Path7 11/5/2	19	STS-3c	Termi	ATM

944f
944e

944

Fig. 5o

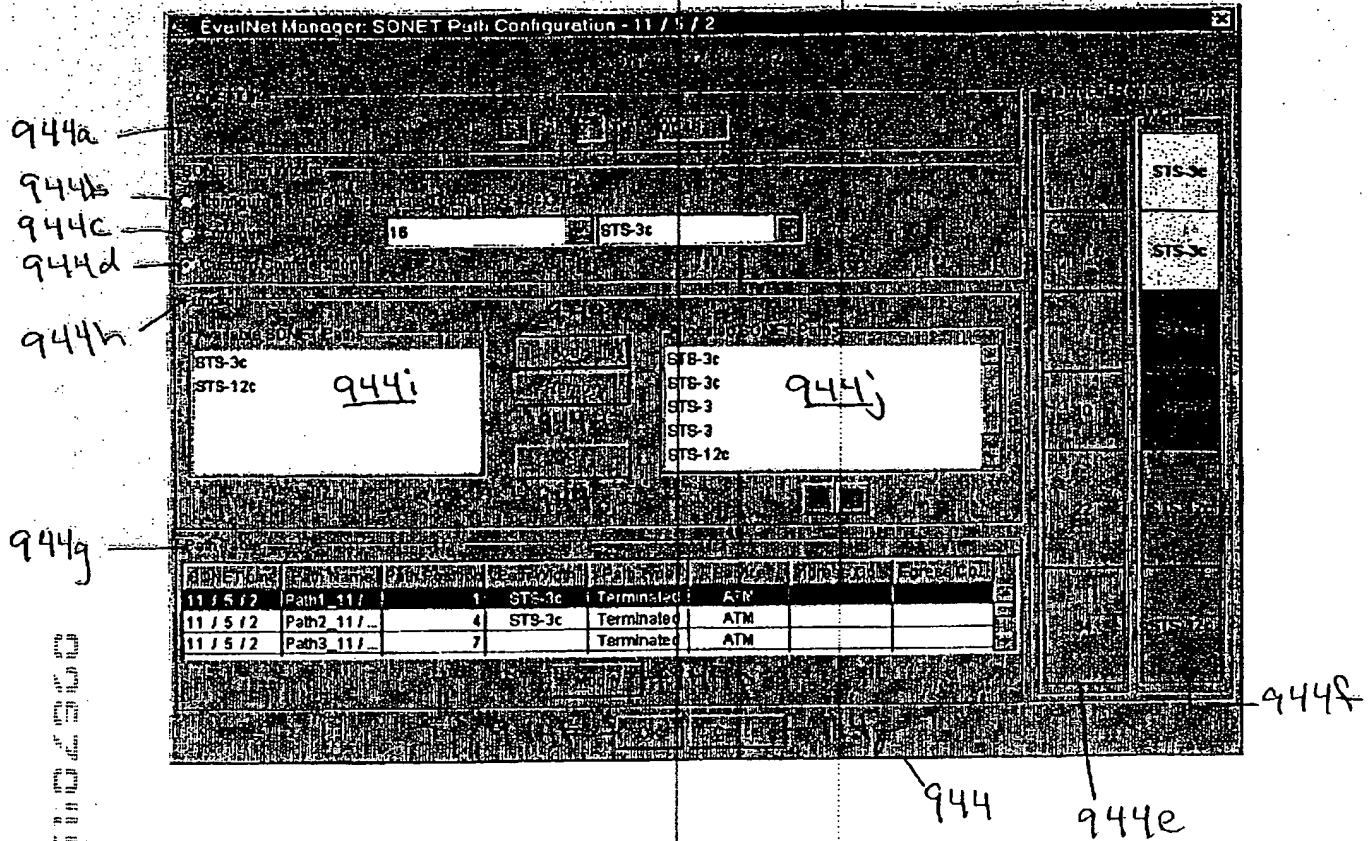


Fig. 5p

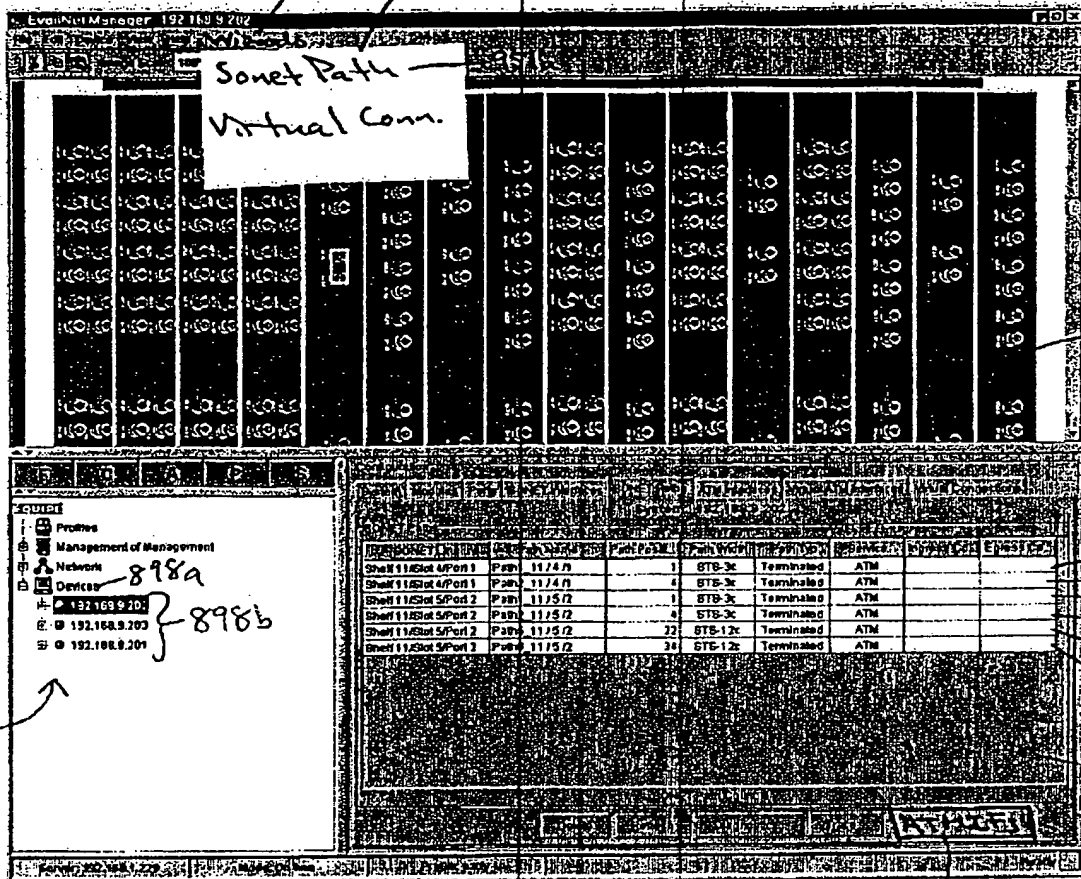


Fig 5g

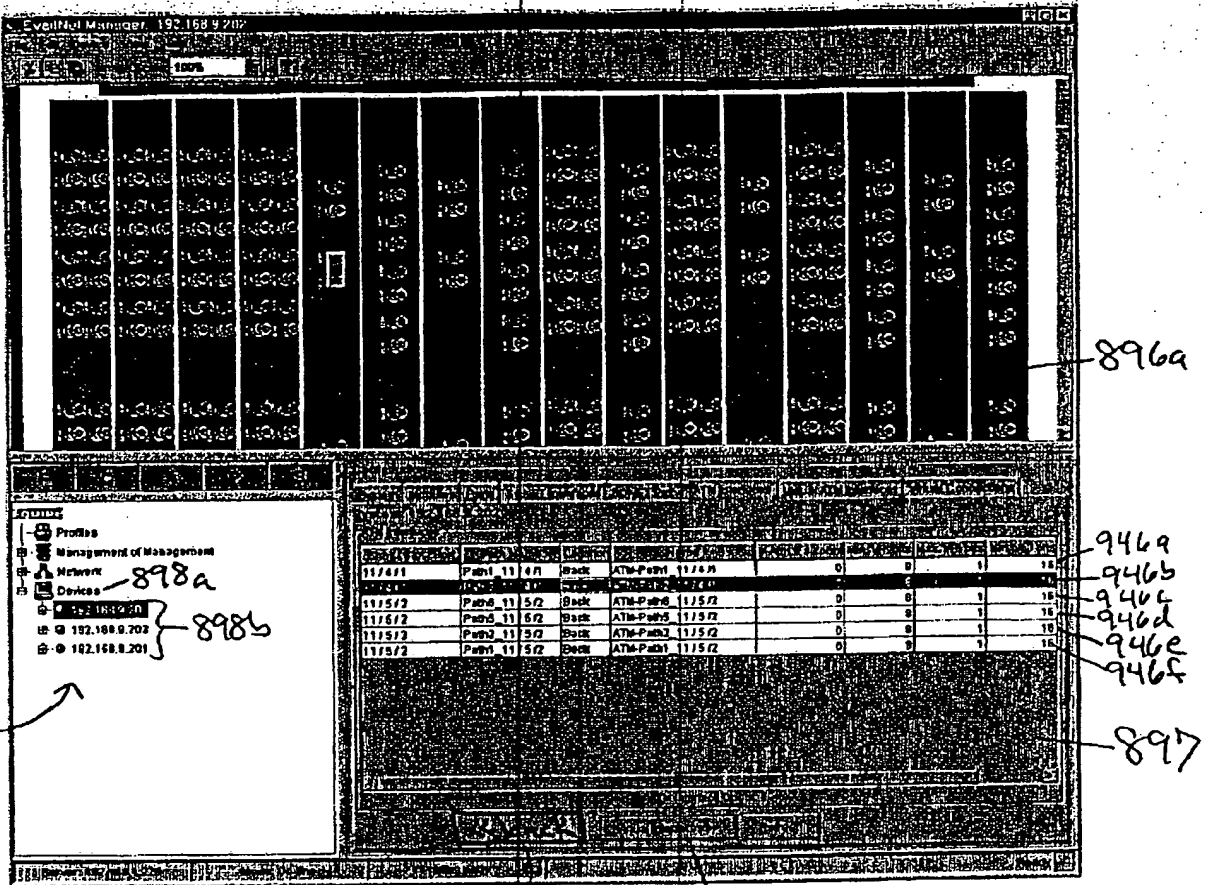


Fig. 5

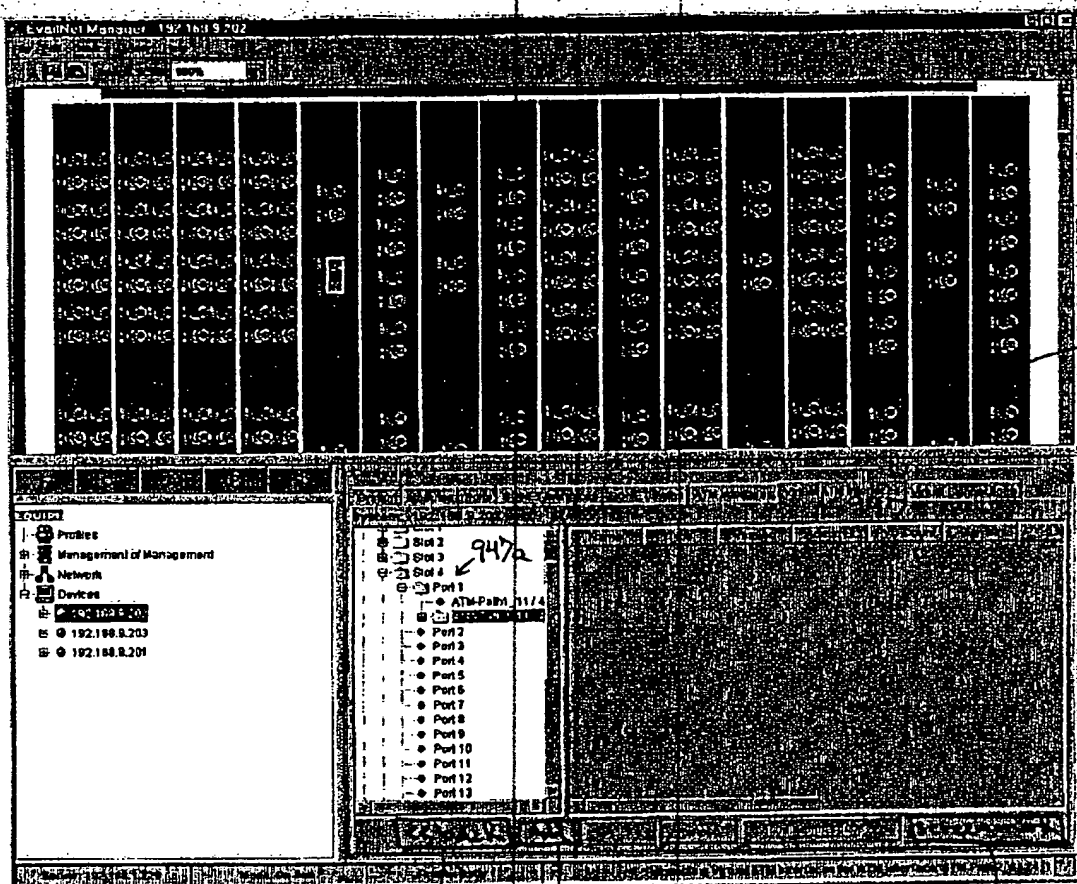


Fig. 5s

Fig. 5+

950

Add V-ATM Interface - 192.168.9.202

Server: 192.168.9.202

Name: test1

Conn. Link: Direct Link

VPI: UNI Network 3.1

Admin. Status: Up

OK Cancel Help

950d

950a

9506

950c

[illegible]

-947c

9476

Fig. 5u

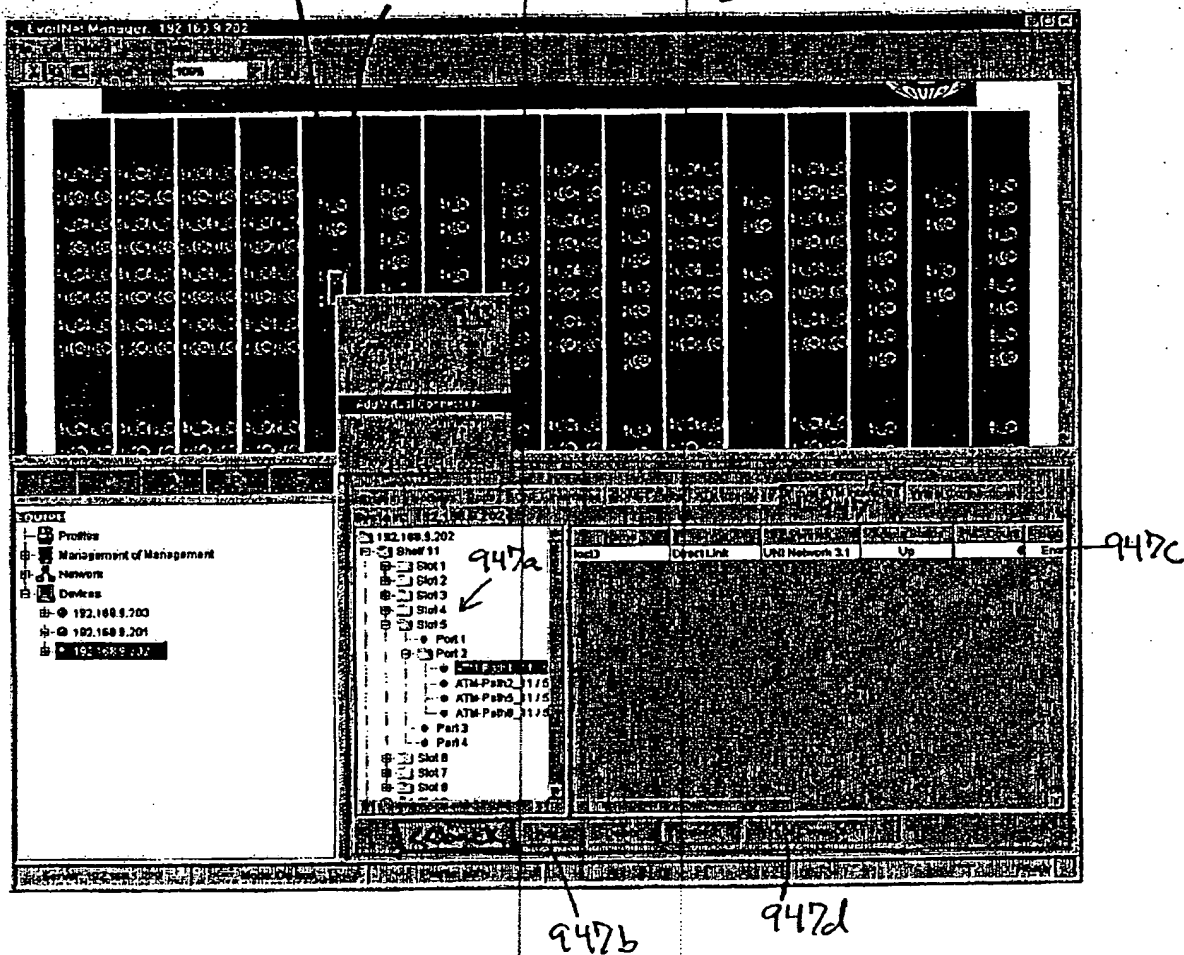
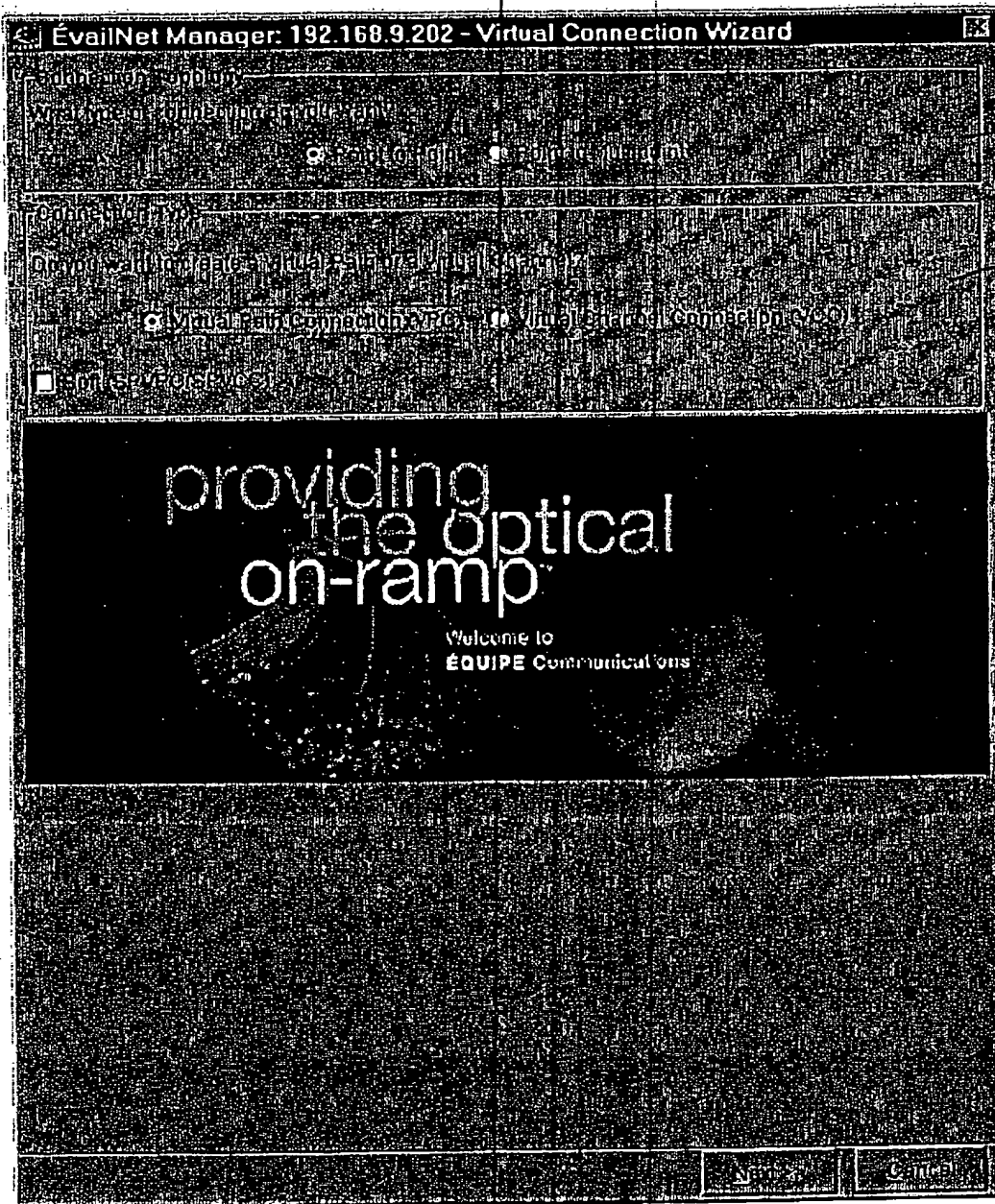


Fig. 5v

952



952a

952b

Fig. 5w

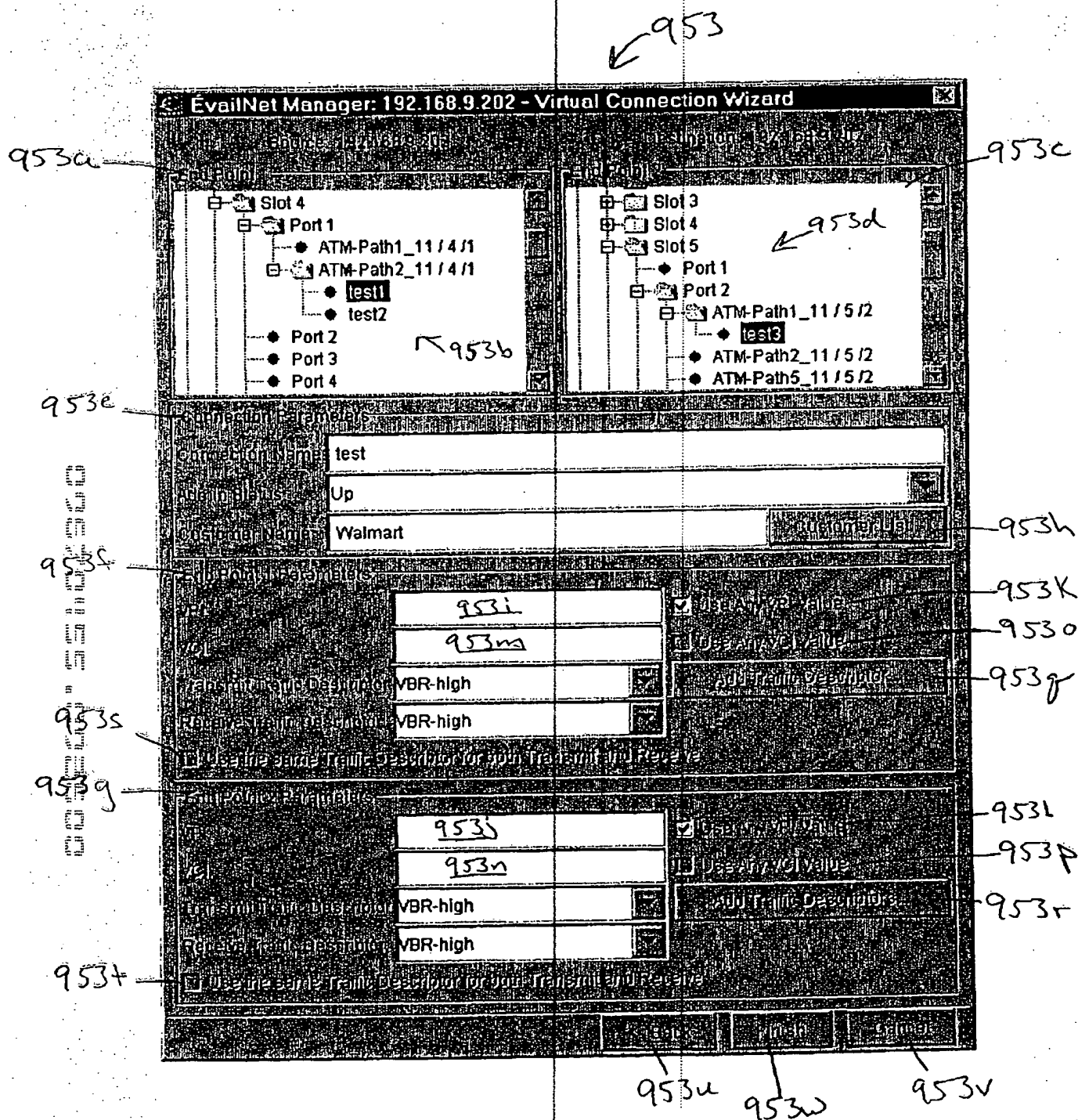


Fig. 5x

956

New Traffic Descriptor

Name:

QoS Class: ▼

Type: ▼

Fig. 5Y

895

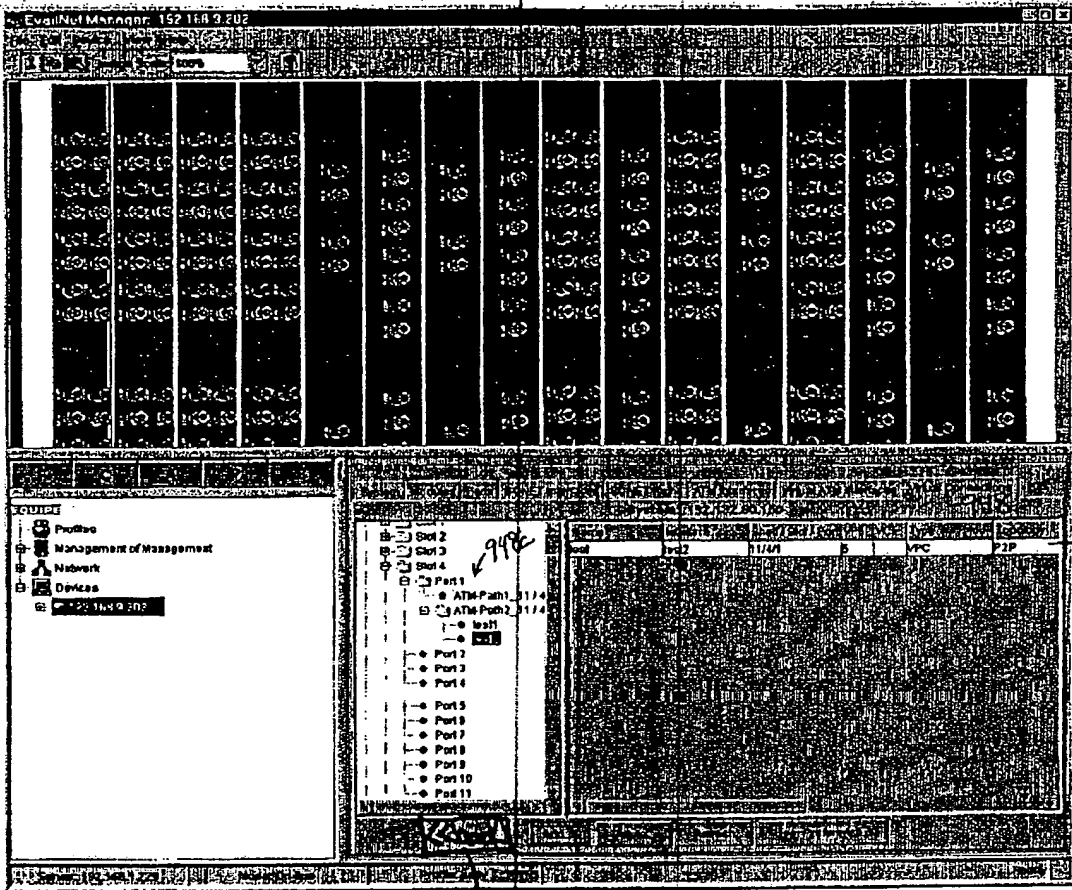


Fig. 57

895

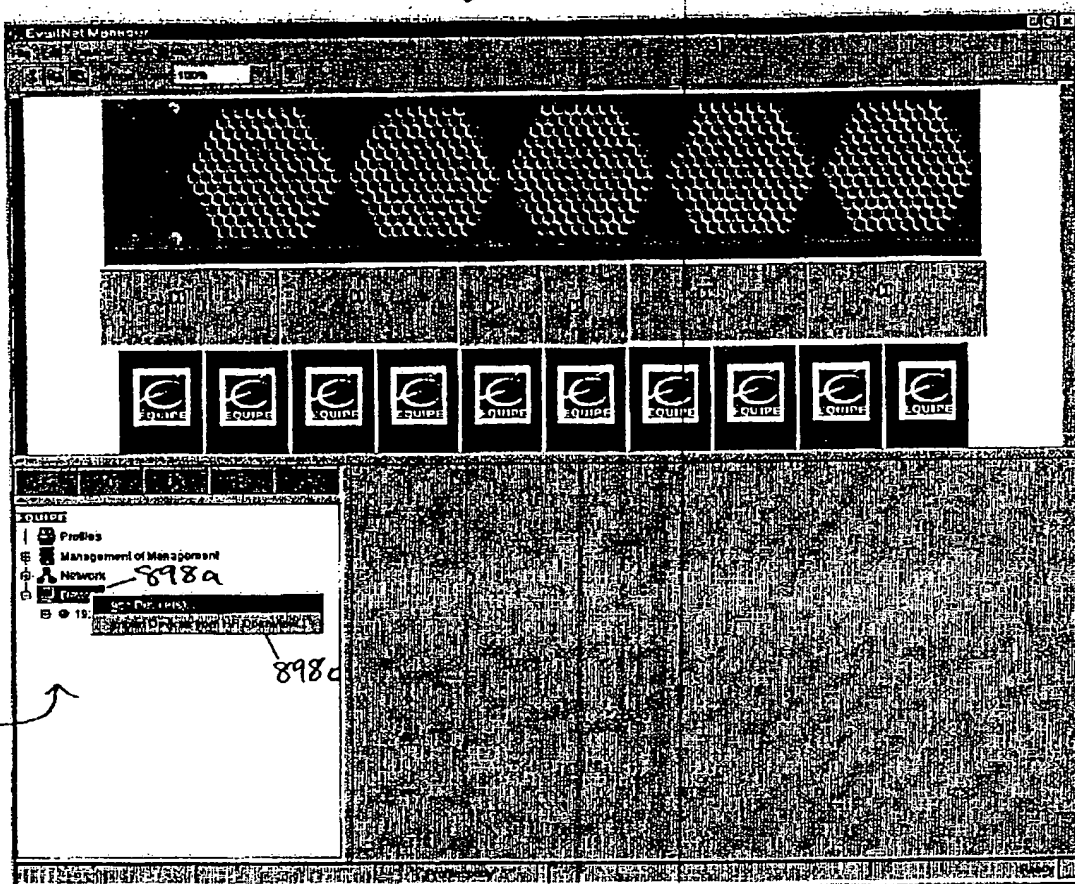


Fig. 6a

Fig. 6b

Fig. 6b is a screenshot of a Windows-style dialog box titled "AddDeleteDeviceDlg". The dialog contains the following elements:

- Title Bar:** "AddDeleteDeviceDlg" with standard window controls.
- Text Field:** Labeled "Enter IP address of device", containing the text "192.168.9.201".
- Checkbox:** Labeled "Managed device (use in the room)".
- Buttons:** "Add" and "Delete" buttons are located below the checkbox.
- Section Header:** "Devices" is written above a sub-header "On-line Device".
- Text Area:** A large, empty rectangular text area for listing devices.
- Footer Buttons:** "OK", "Cancel", and "Delete" buttons are at the bottom of the dialog.

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Fig. 6c

Fig. 6c is a screenshot of the same "AddDeleteDeviceDlg" dialog box, showing a different state:

- Checkbox:** The "Managed device (use in the room)" checkbox is now checked.
- Text Area:** The "On-line Device" text area now contains the IP address "192.168.9.201" and a small icon to its left.
- Buttons:** The "Add" button is highlighted.

898d

898g

898m

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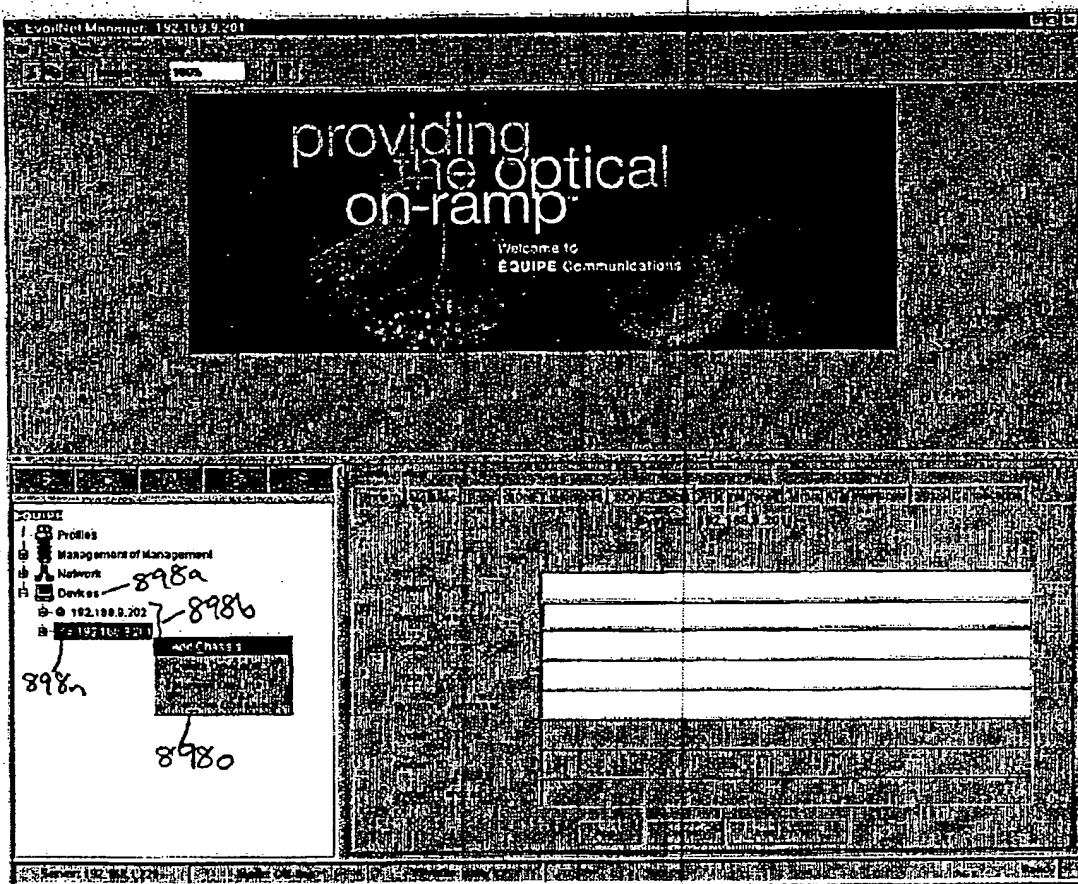


Fig. 6d

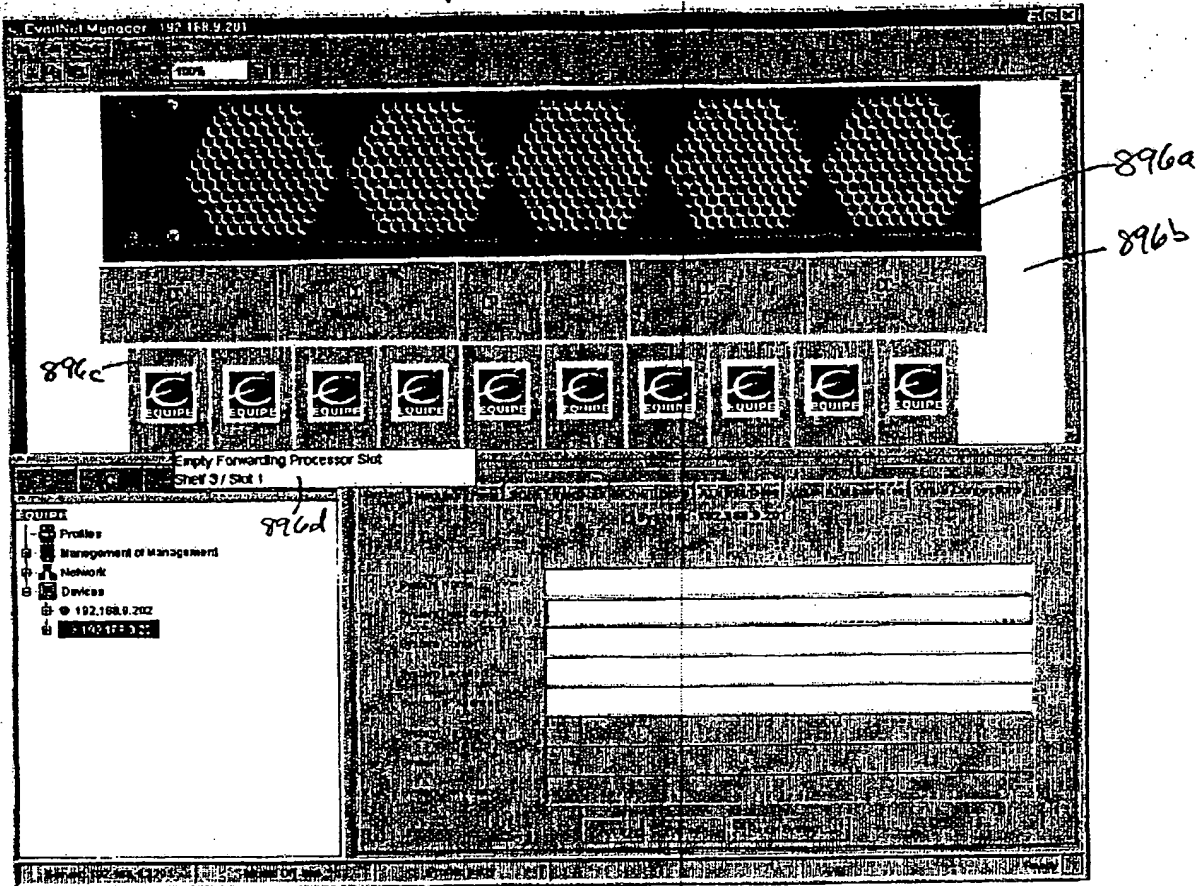


Fig. 6e

895

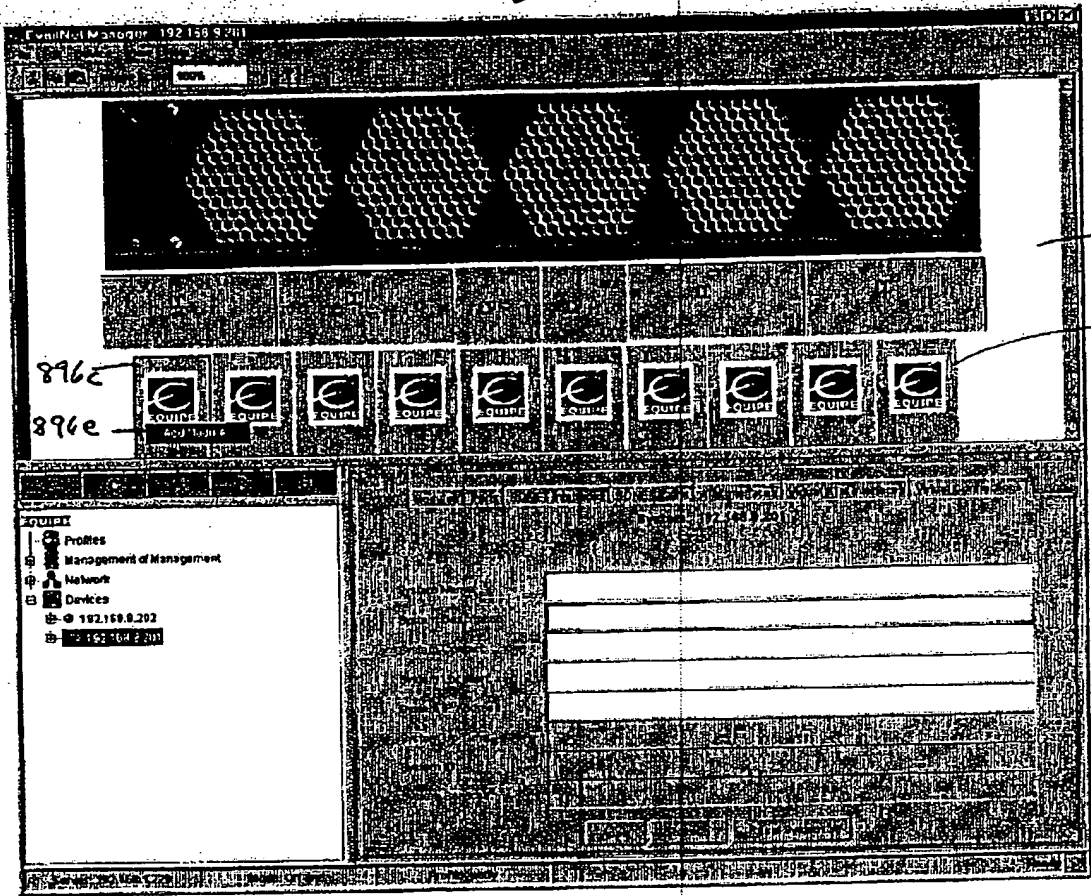


Fig. 6f

895

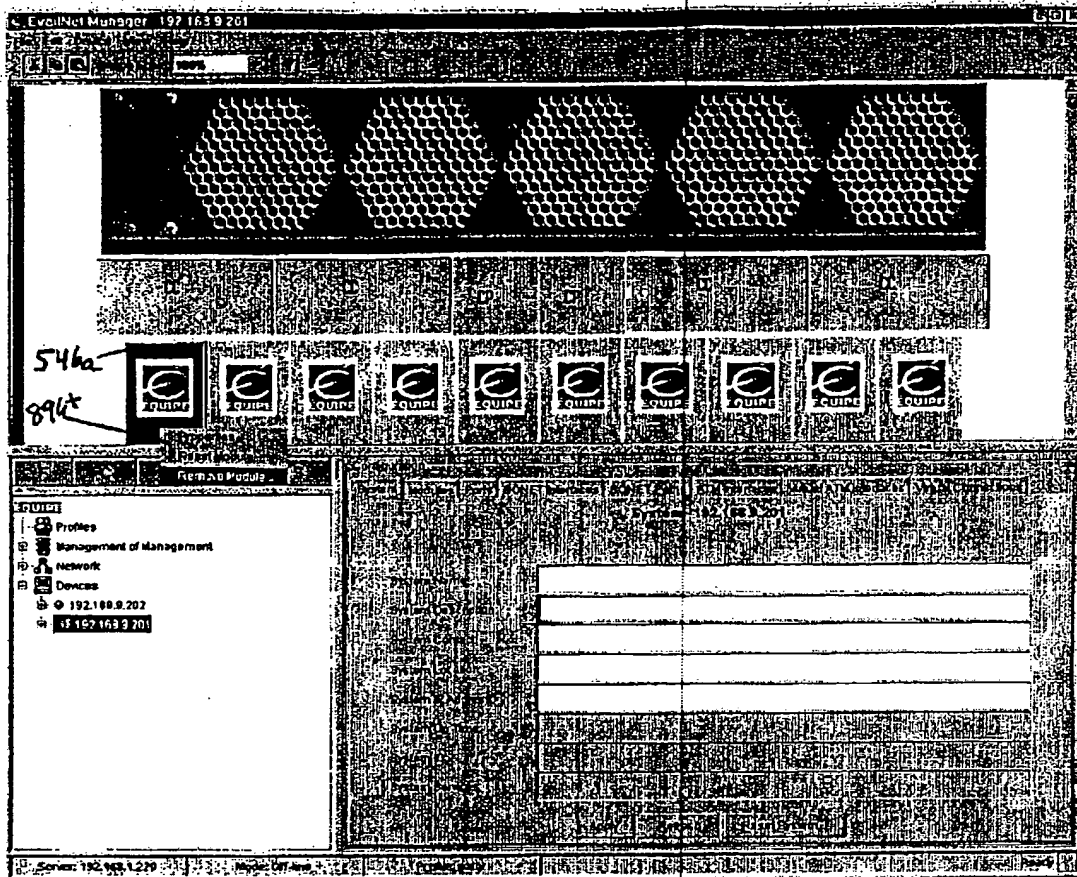


Fig. 69

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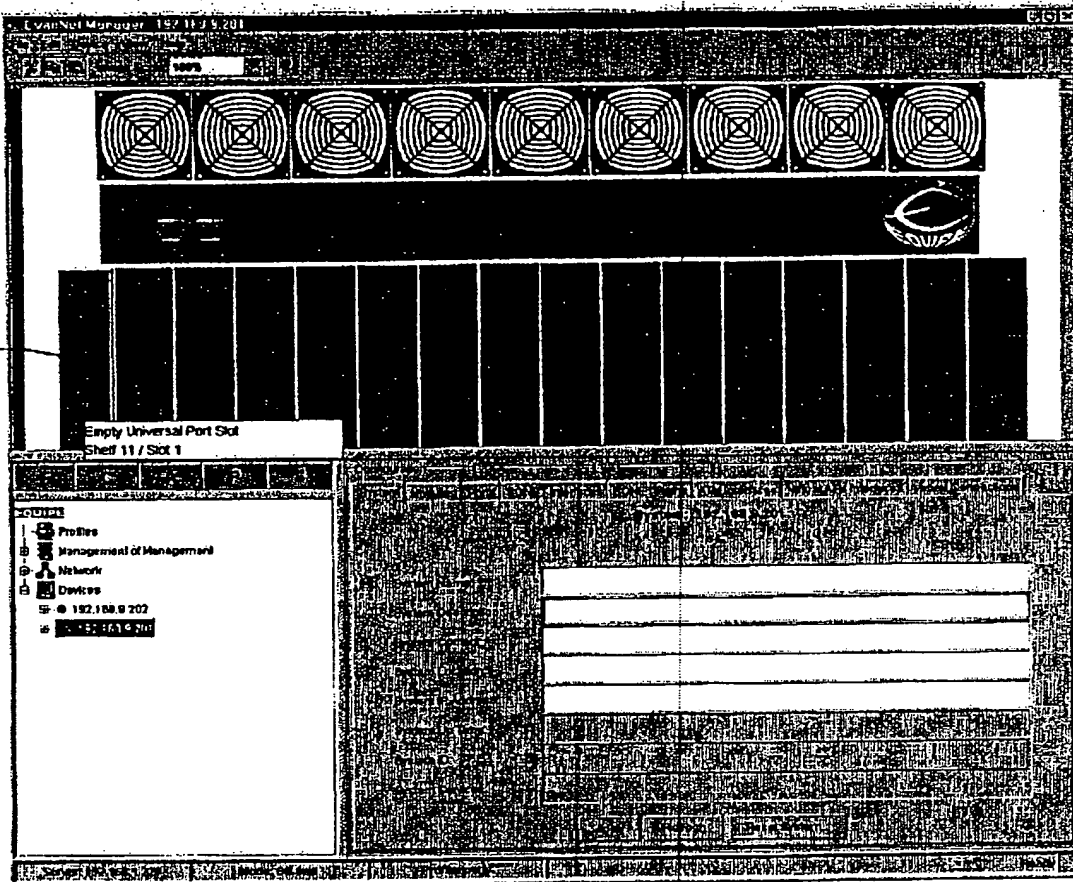


Fig.6h

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896g

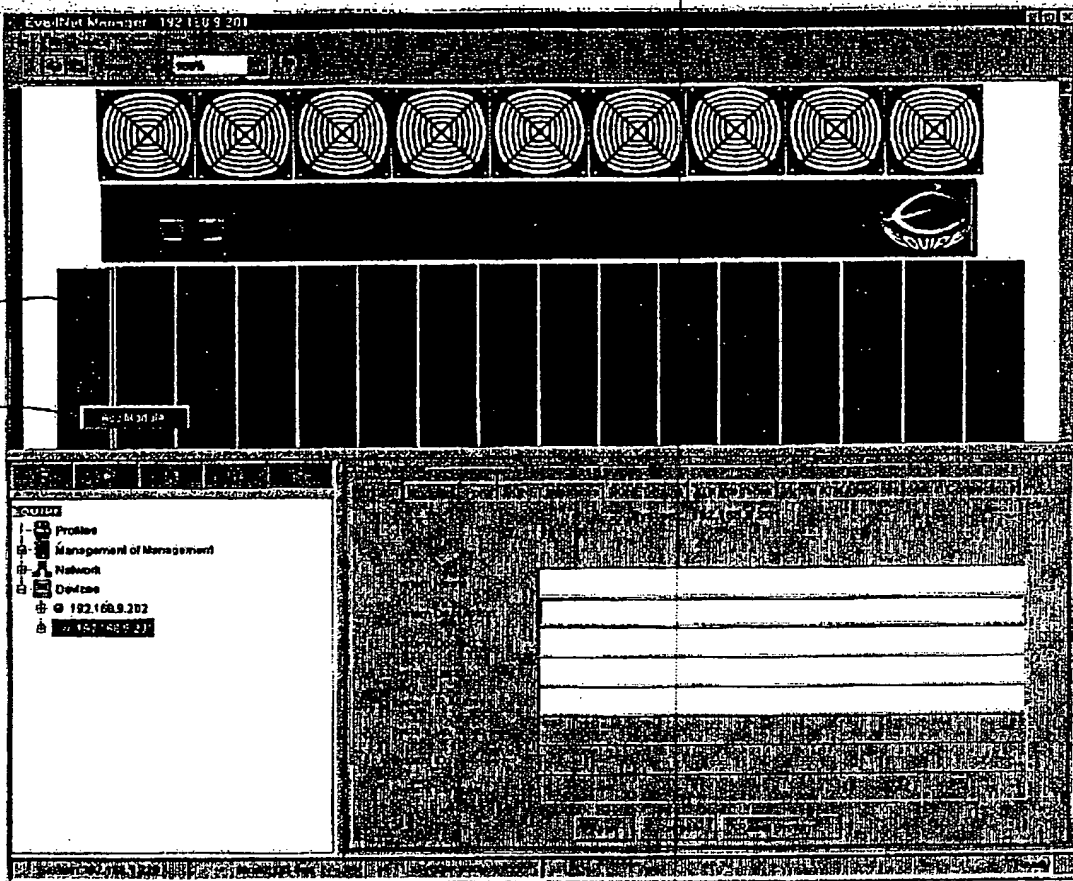


Fig. 6j

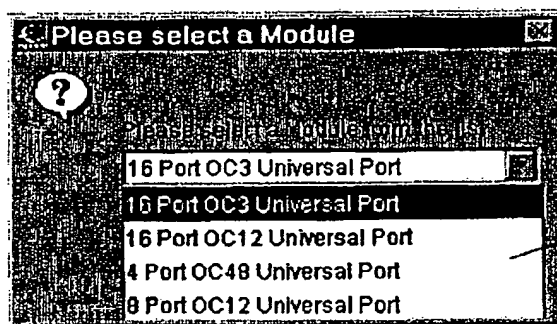
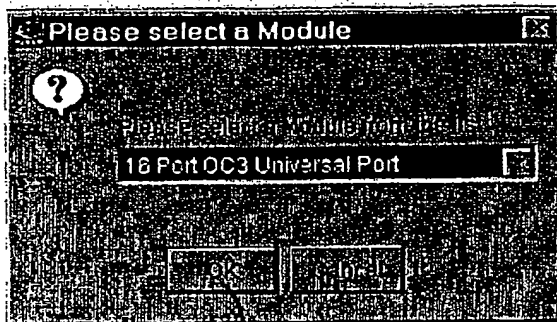


Fig. 6K

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556i

556h

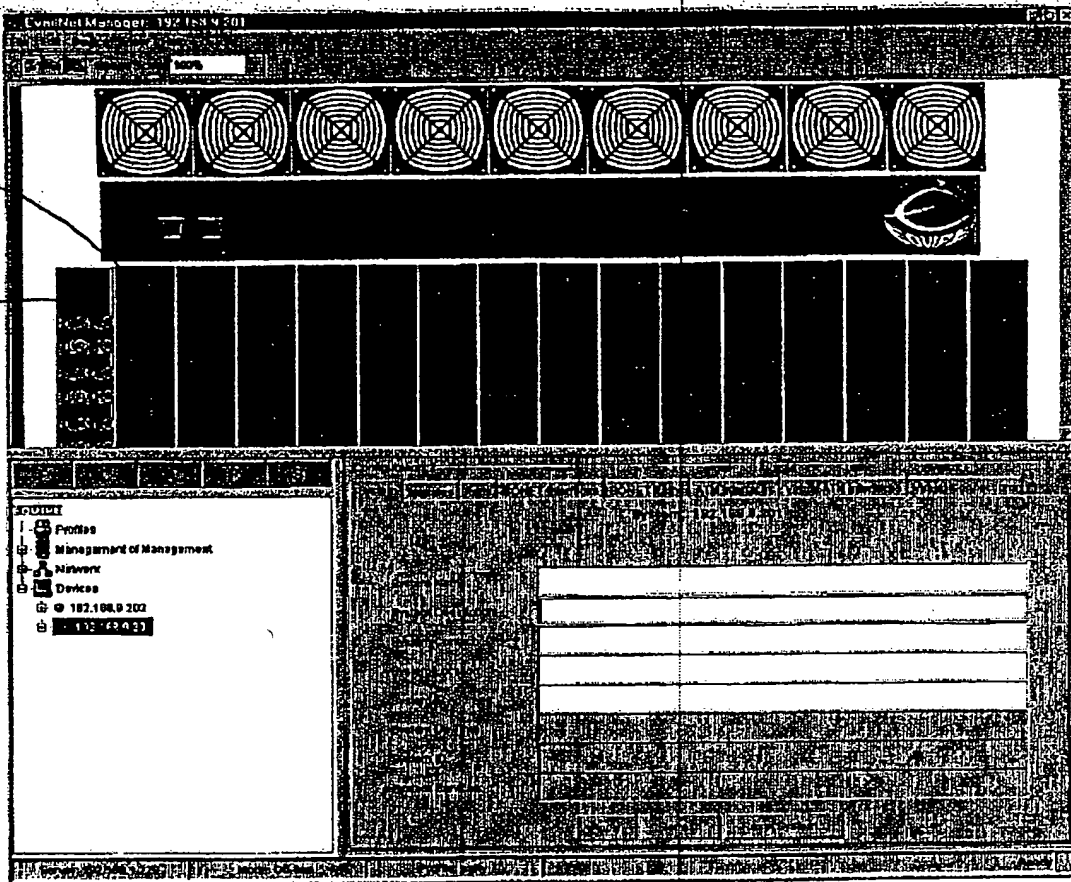


Fig. 61

895

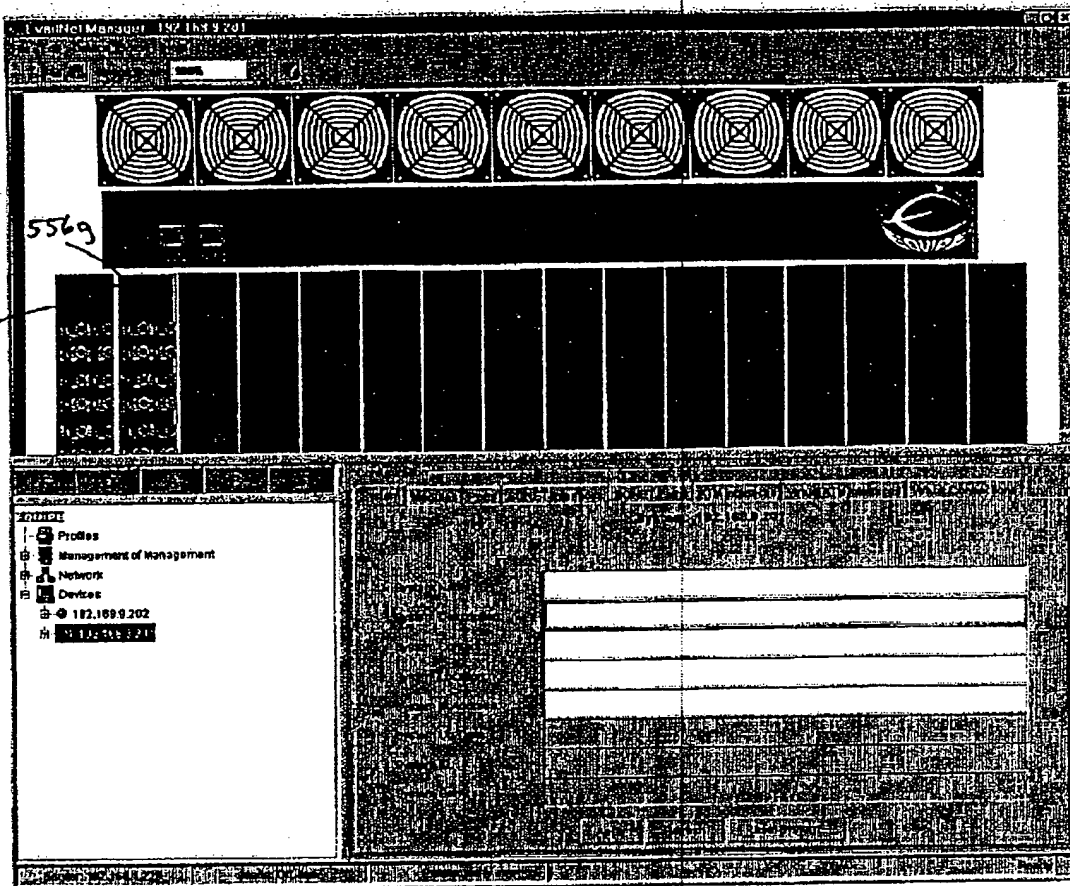


Fig. 6m

895

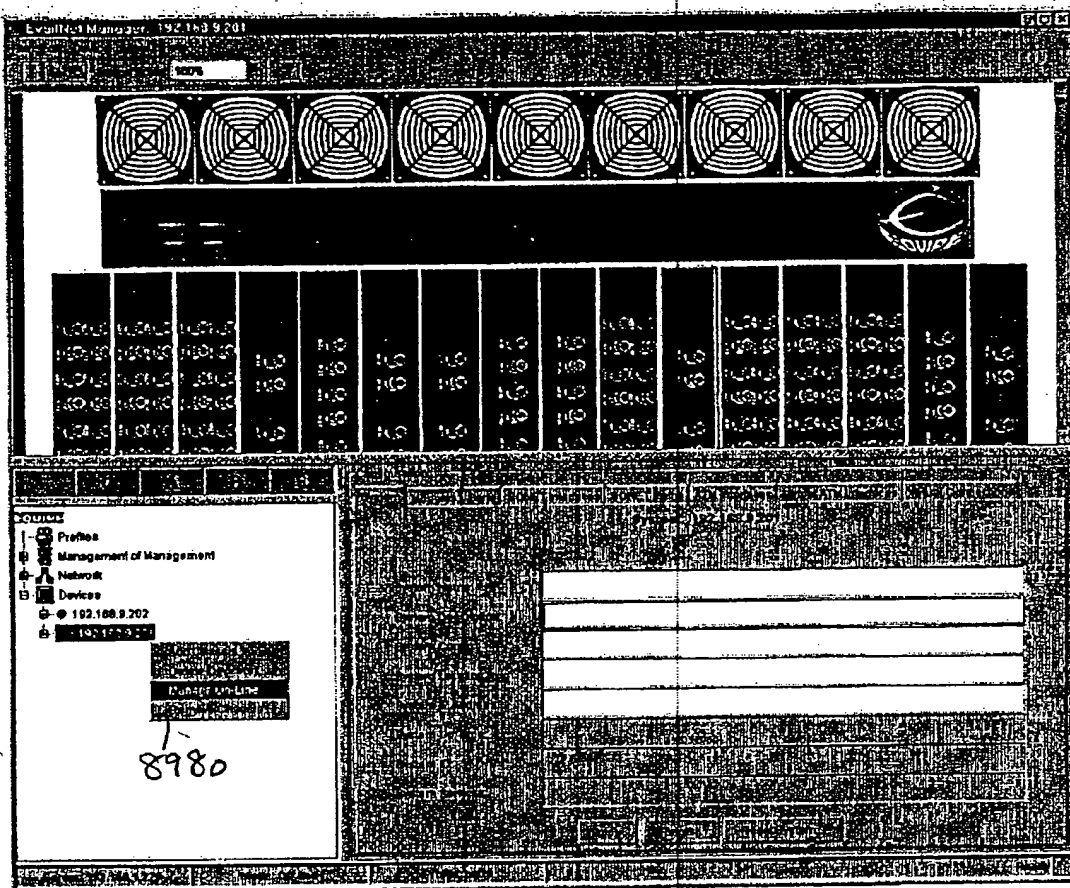


Fig. 6n

895

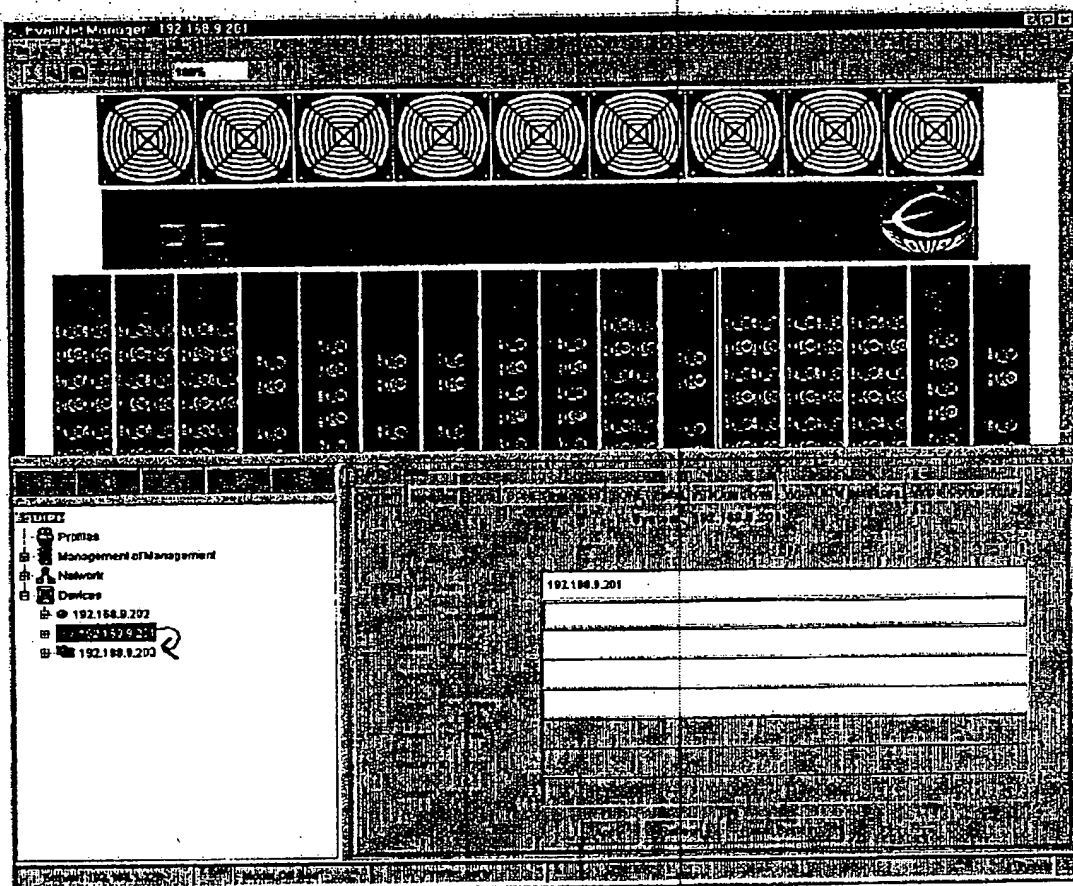


Fig. 60

895

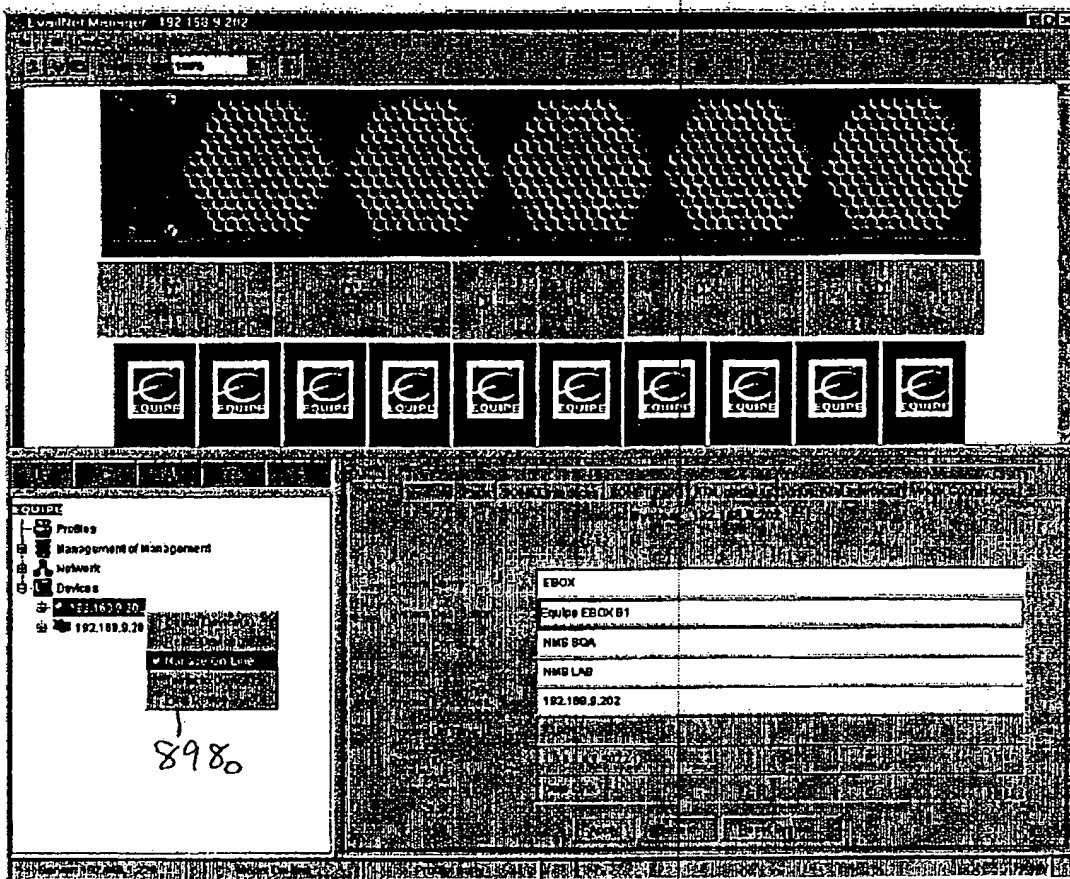


Fig. 6P

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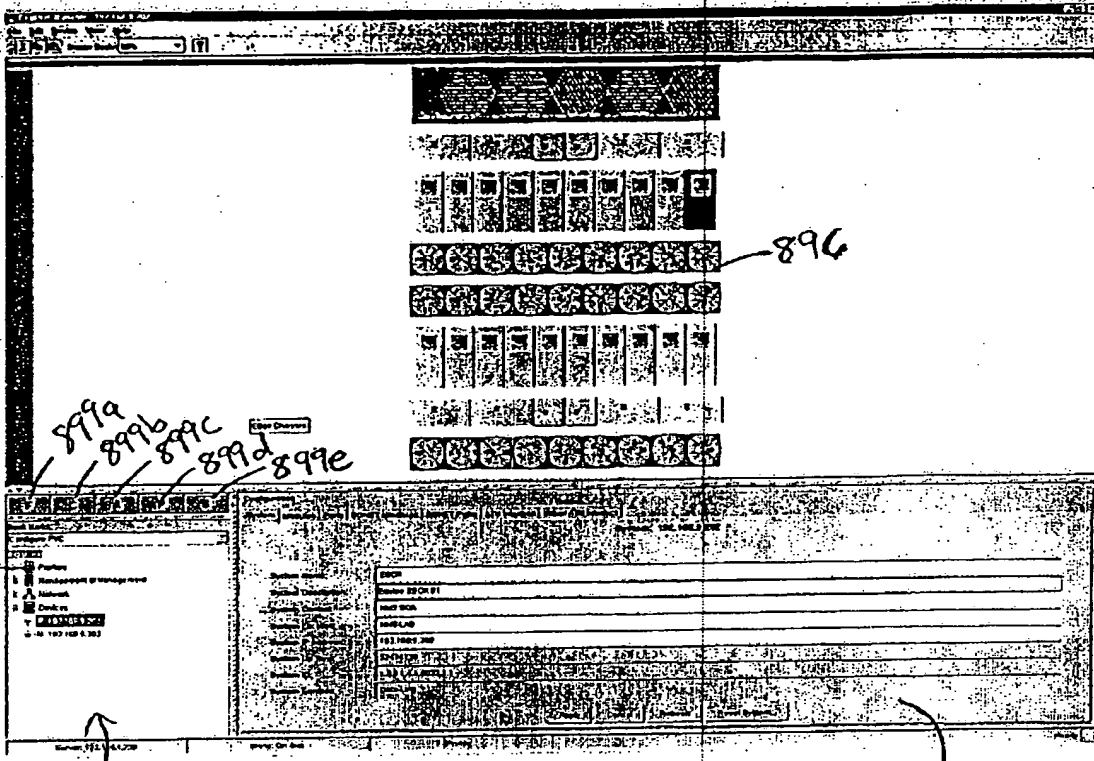
899a
899b
899c
899d
899e

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Fig. 7a



EvaluNet Manager: Fault - Event Summary			
System: 192.168.55.160			
System	Event	Event Number	Description
1.1.55.6	Fan OverTemp	44	"Fan marginally functioning"
1.1.55.7	New Board Ins...	75	"New board inserted"
OK			

Fig. 7b

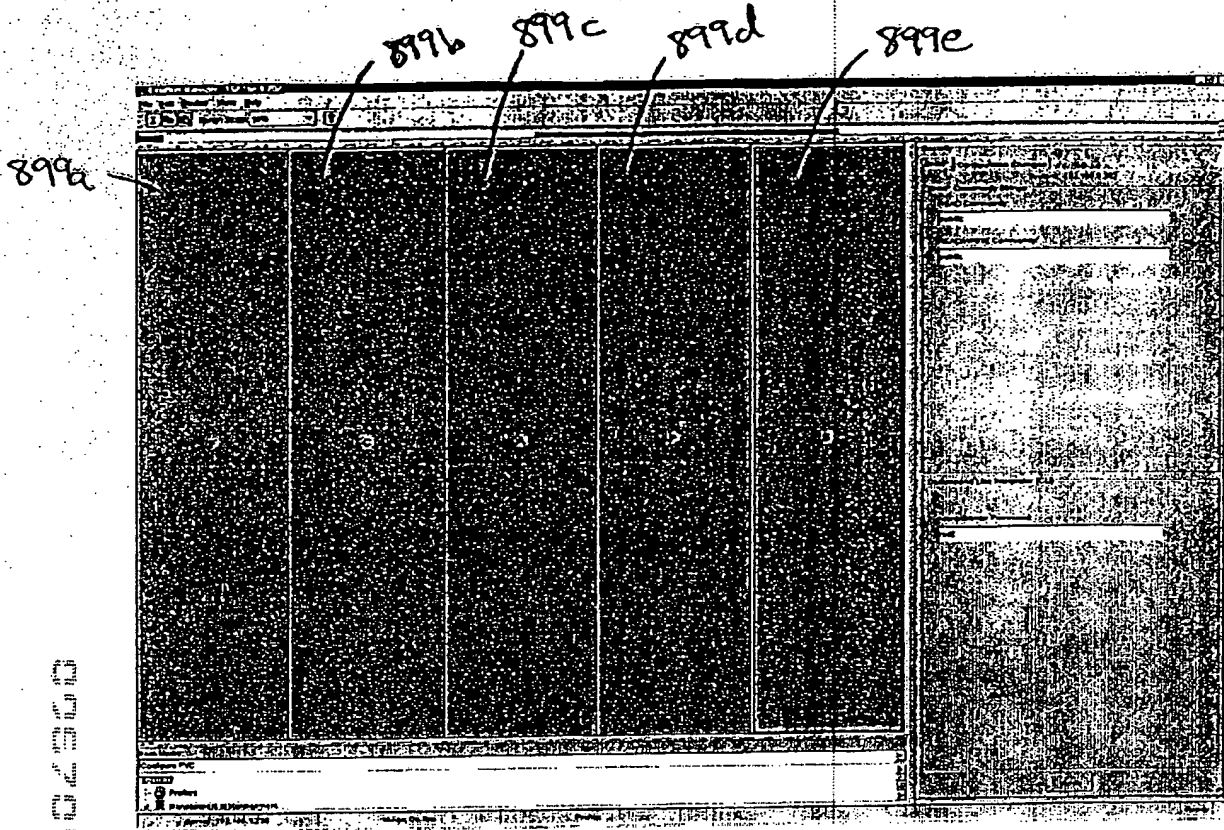


Fig.7c

895

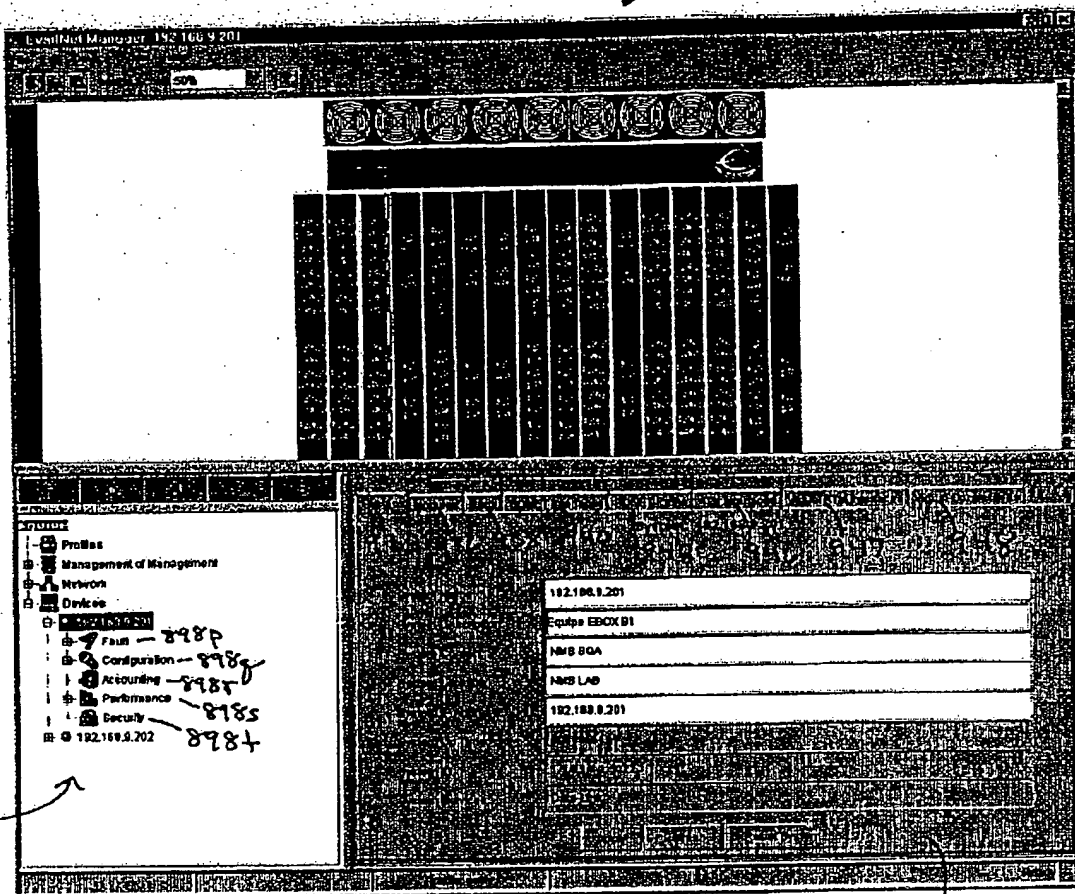
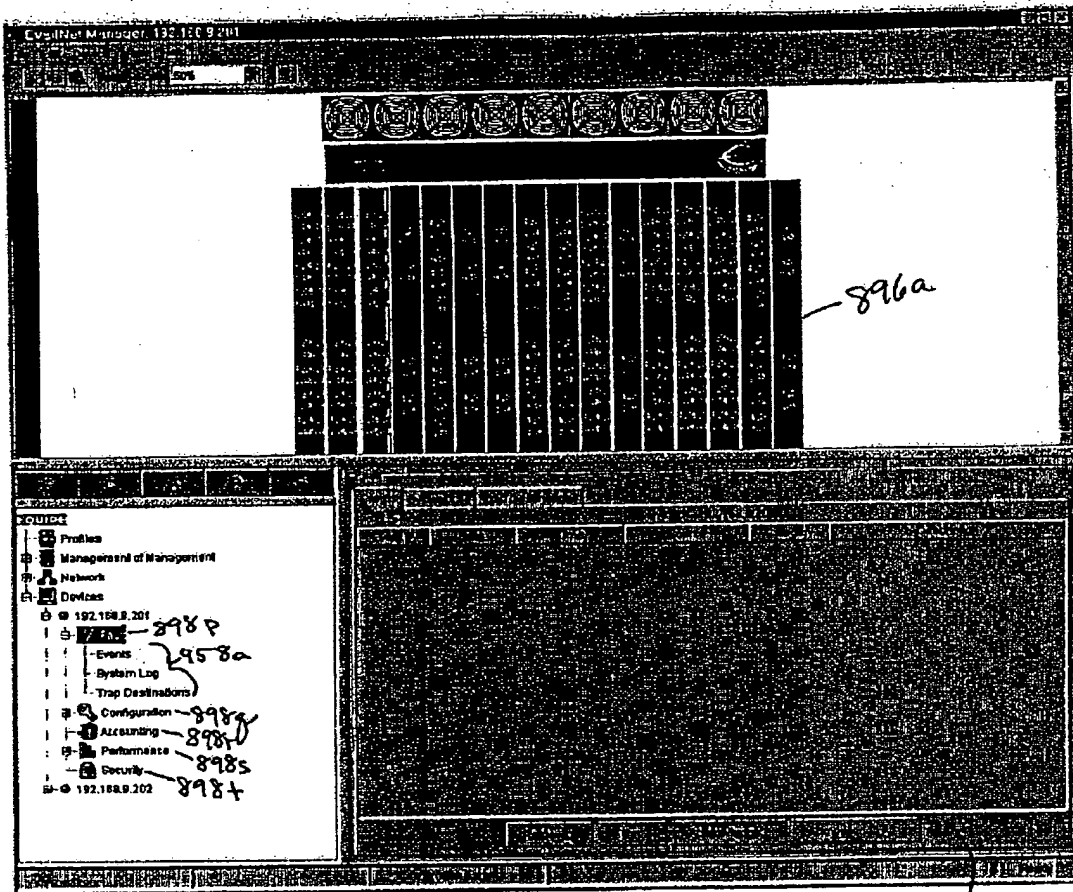


Fig. 7d

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Fig. 7e

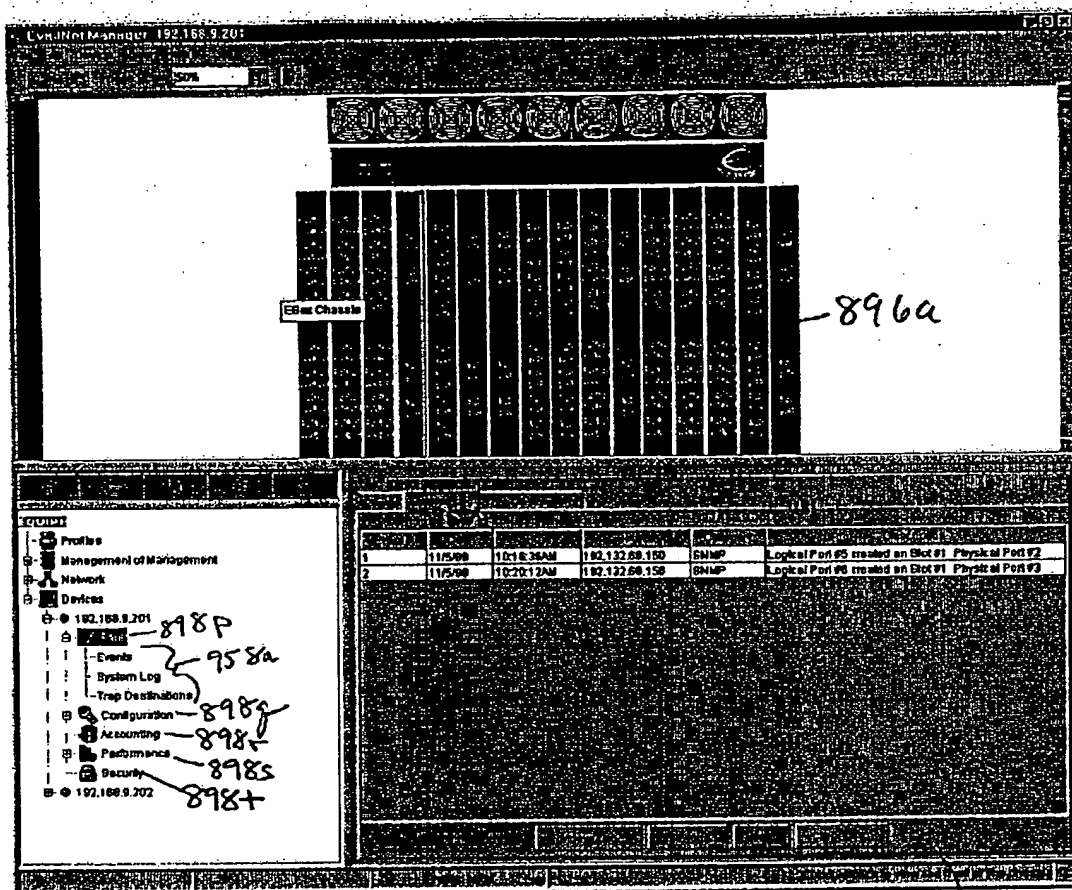


Fig. 24

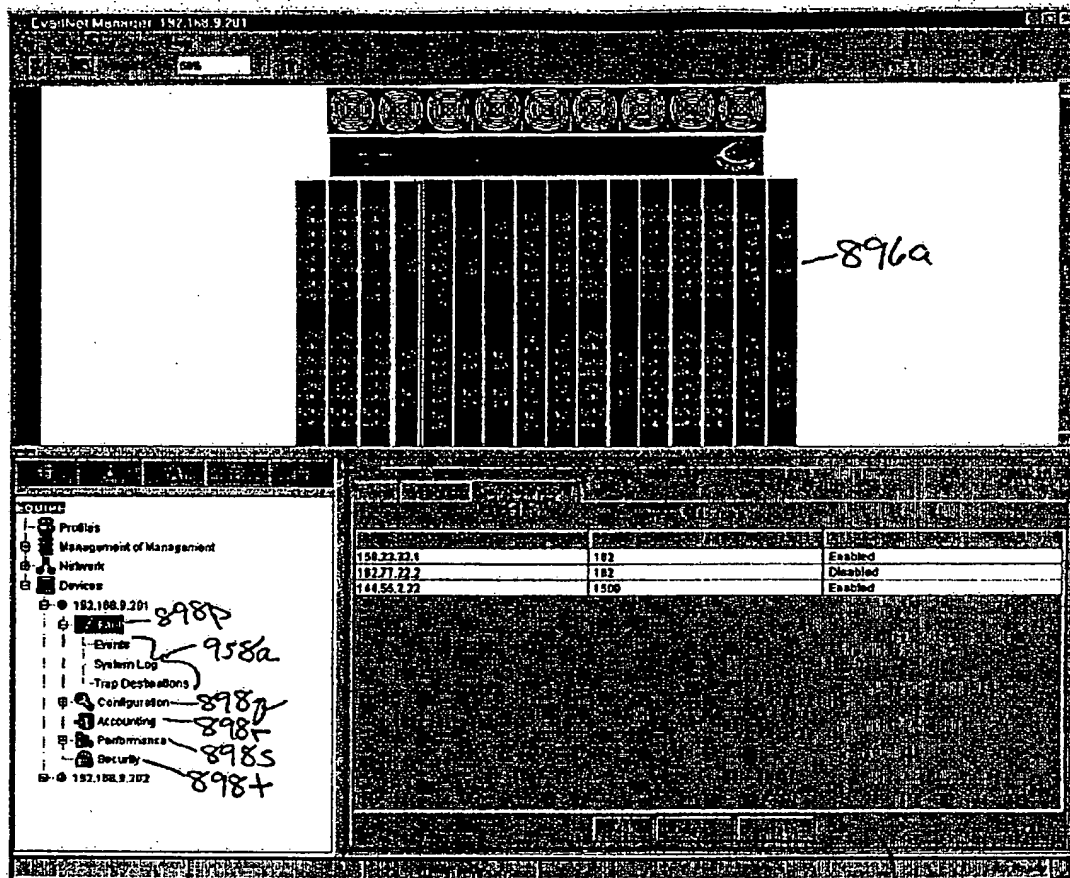
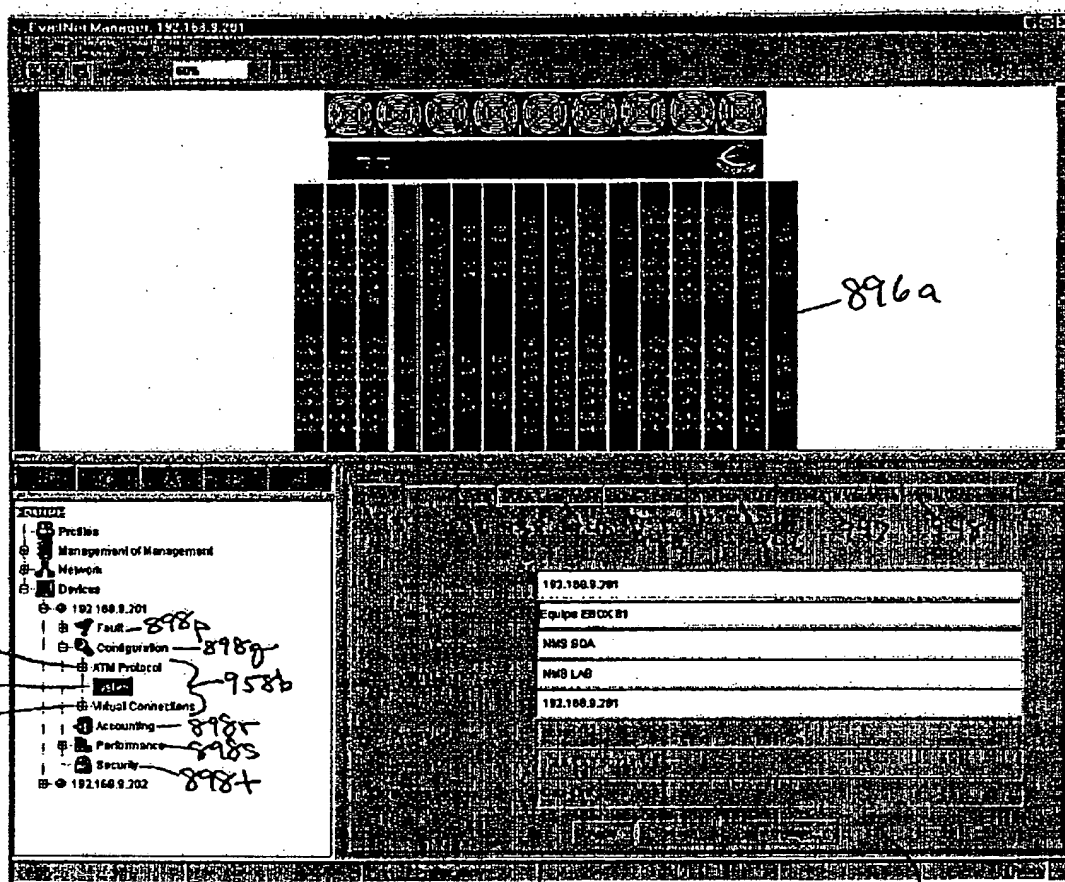


Fig. 7g

895



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Fig. 7h

895

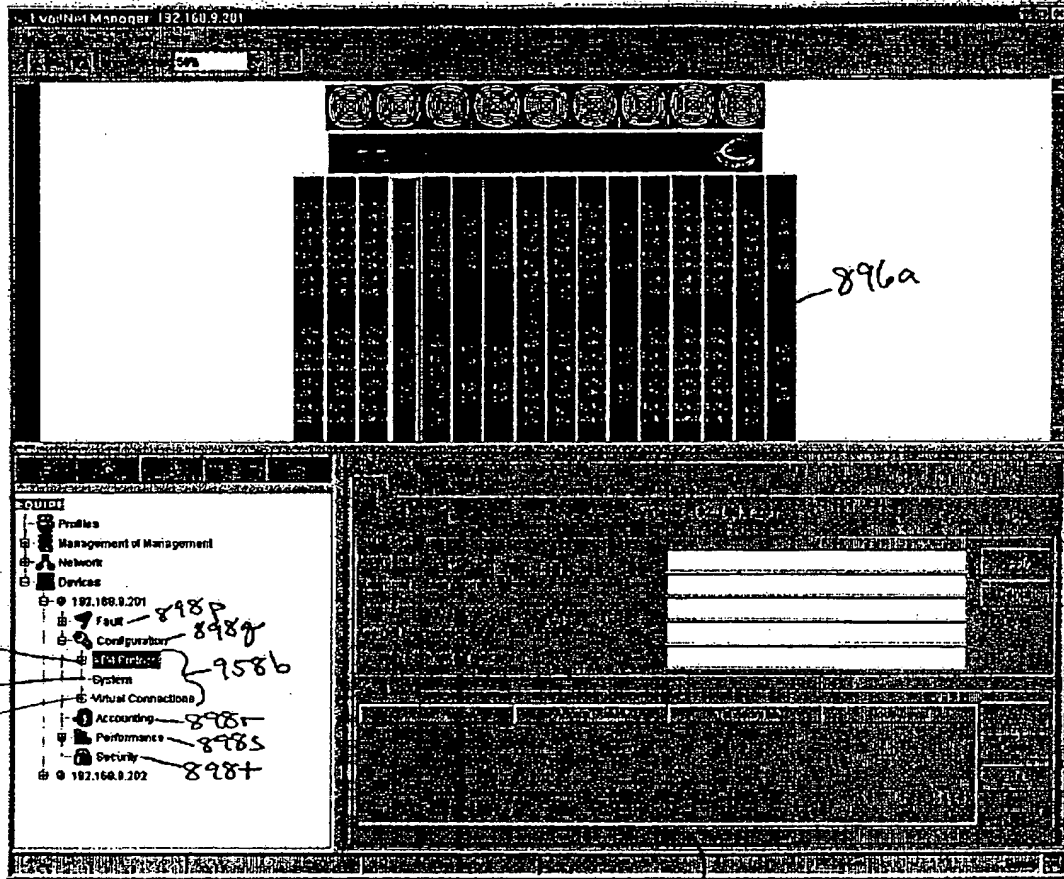


Fig. 7i

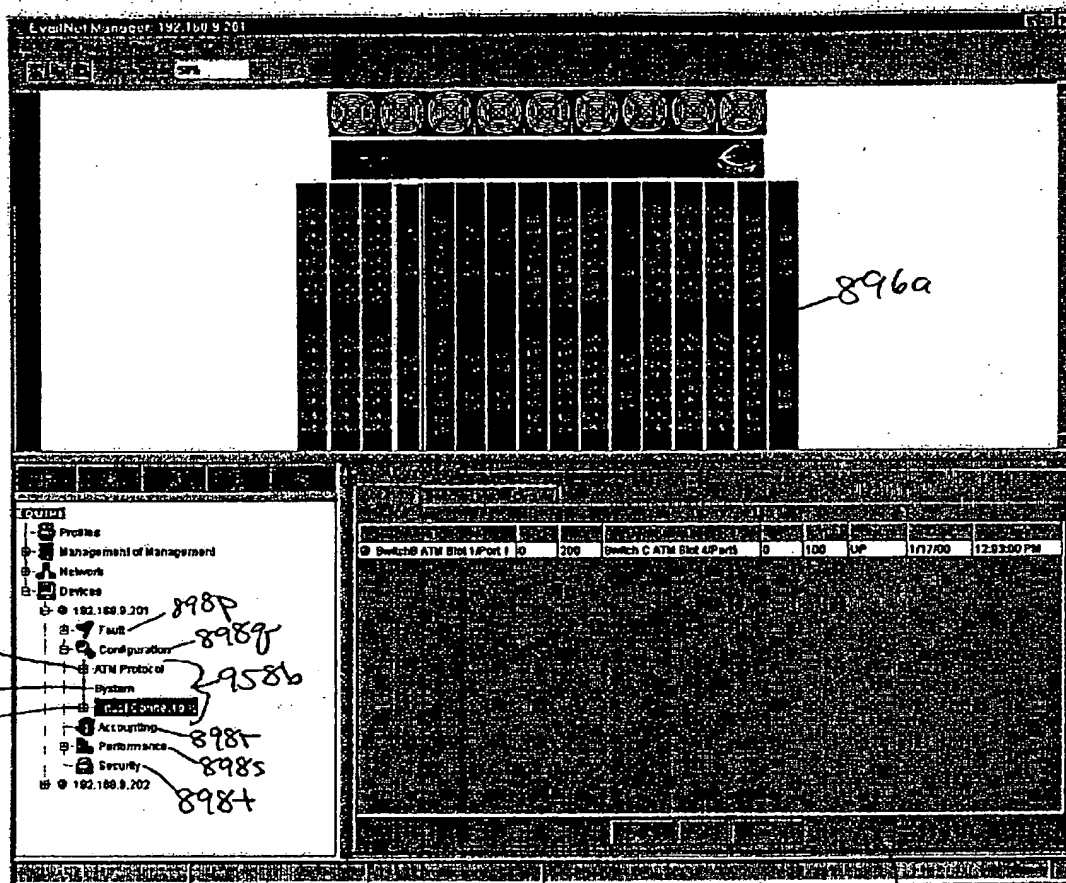


Fig. 7j

895

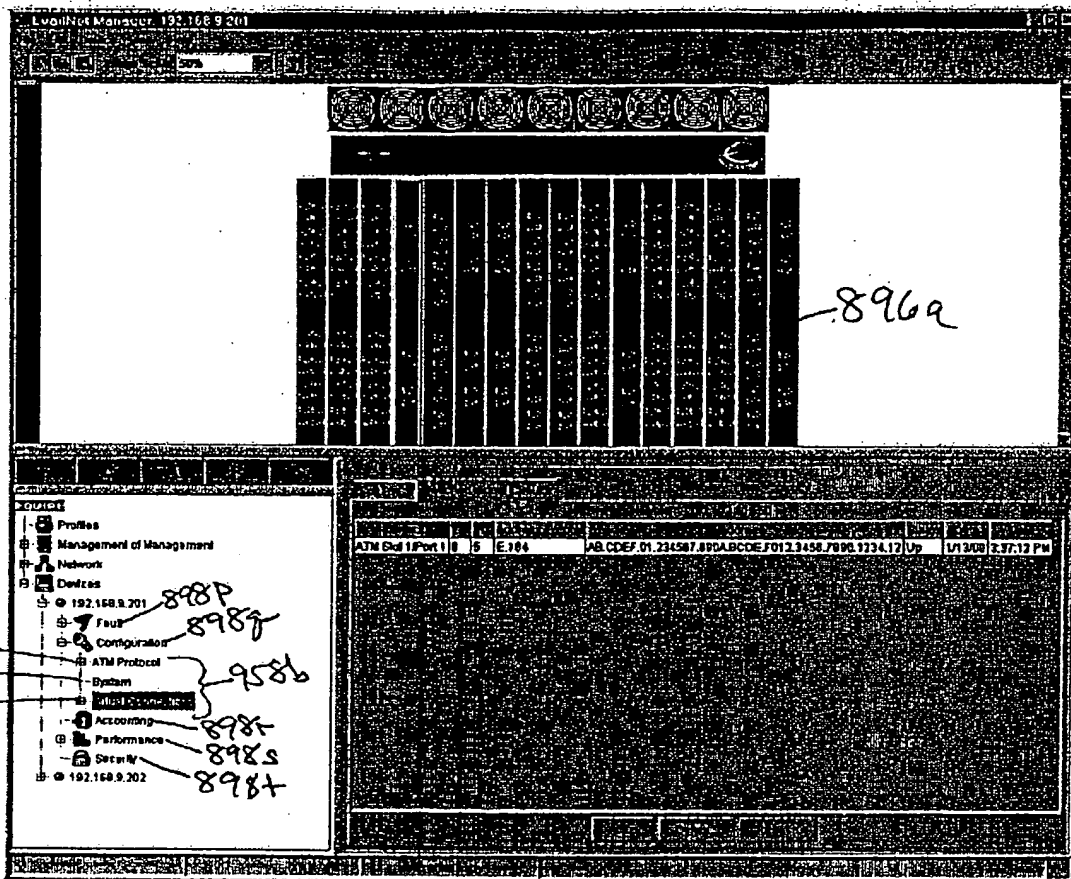


Fig. 7K

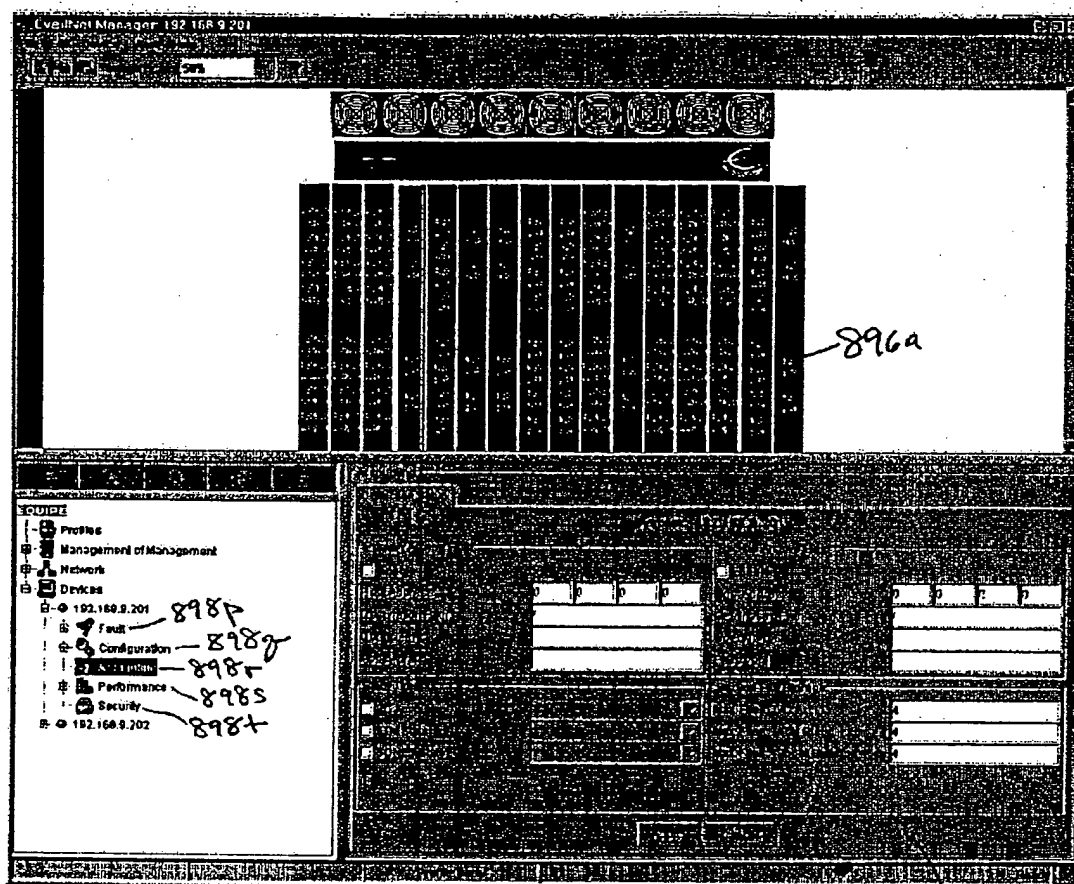
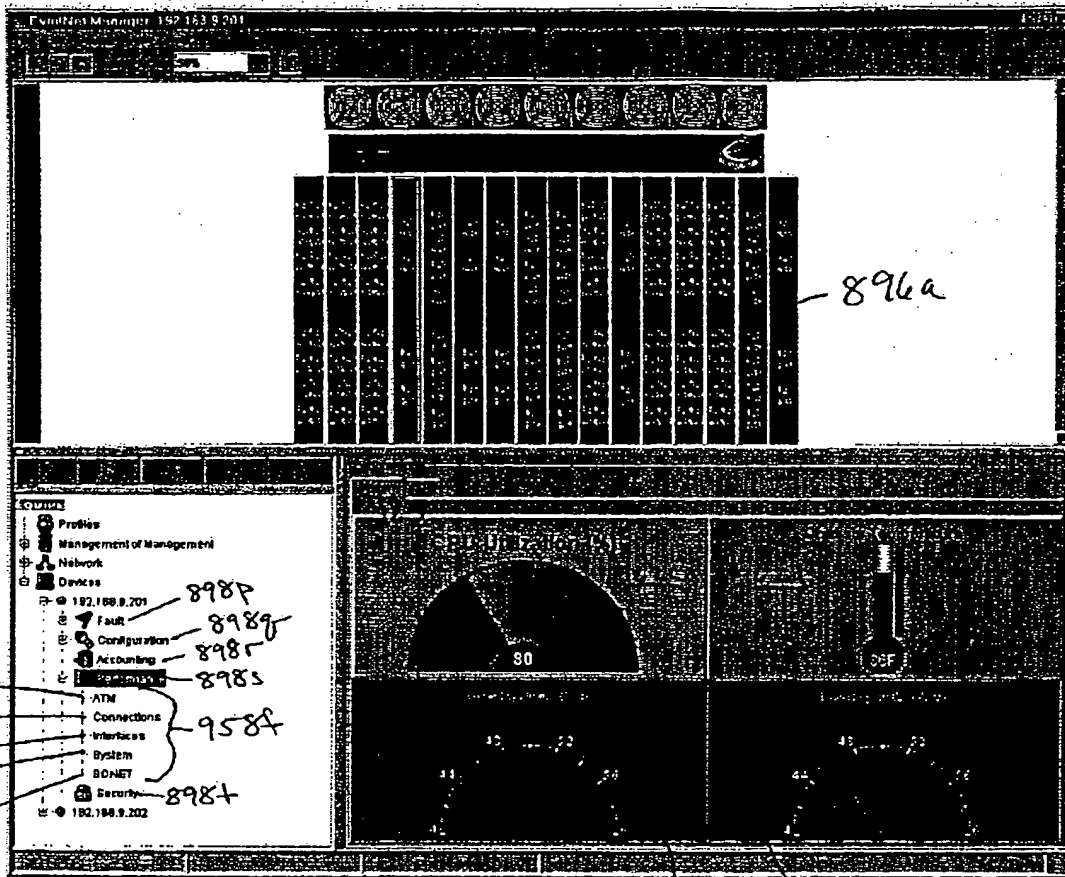


Fig. 7L

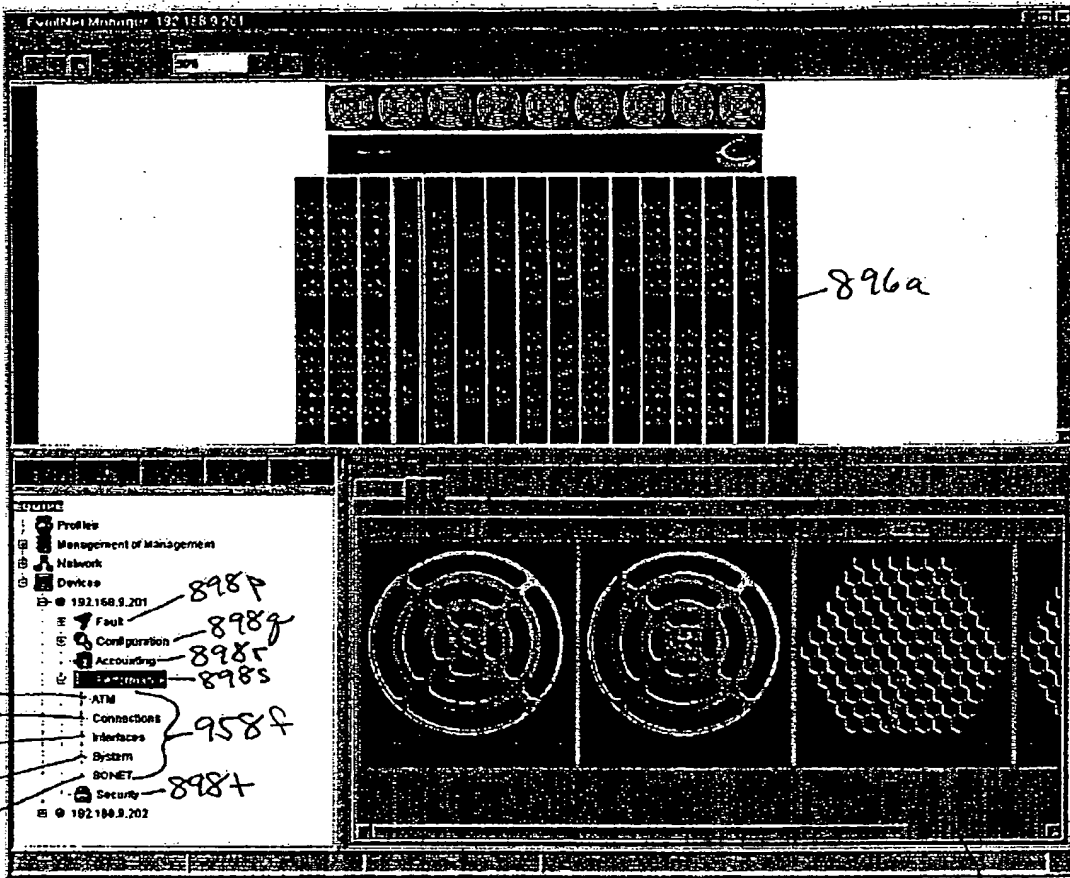
895



962e 962f

Fig. 7m

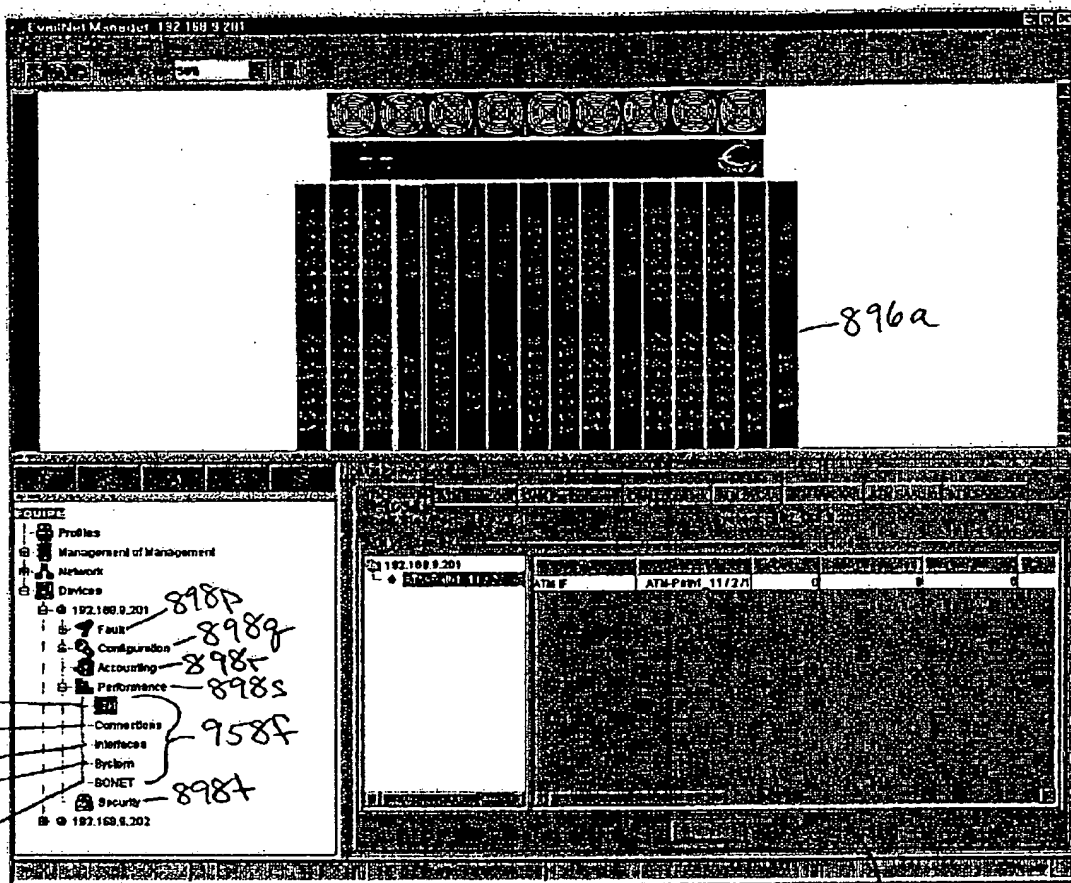
895



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Fig. 7n

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Fig. 70

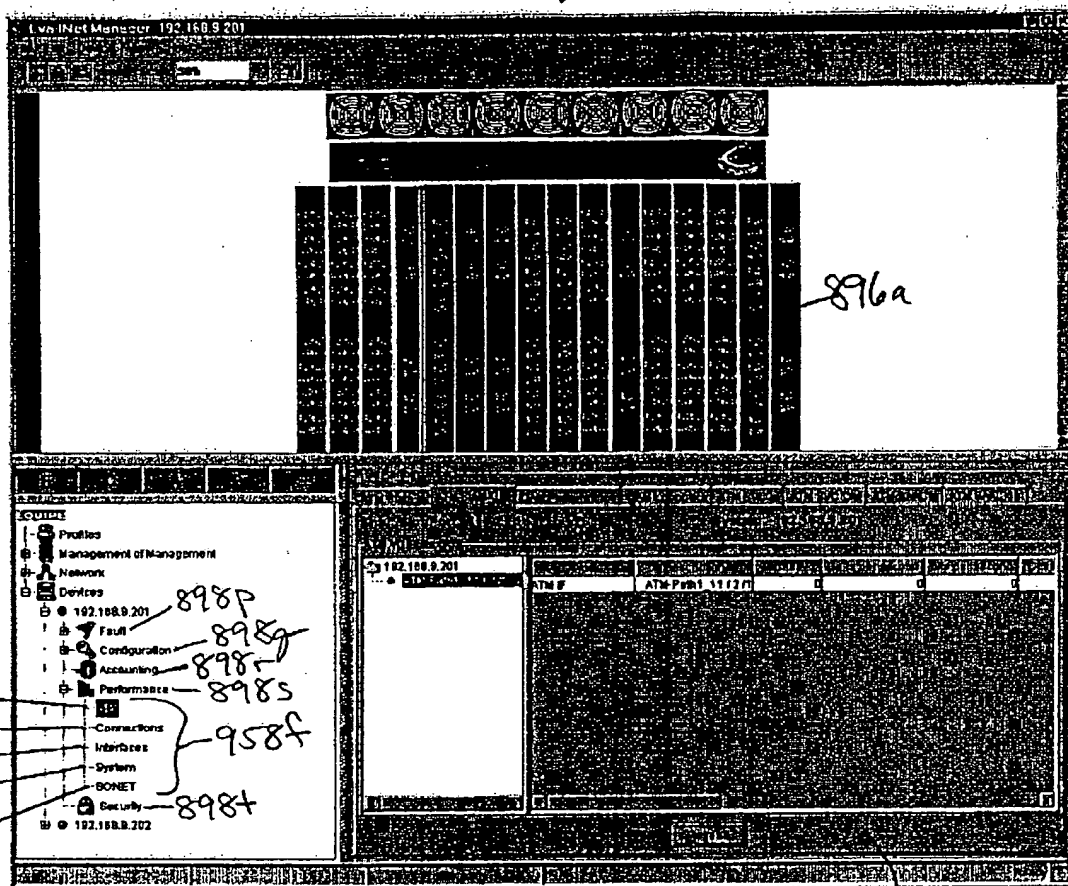
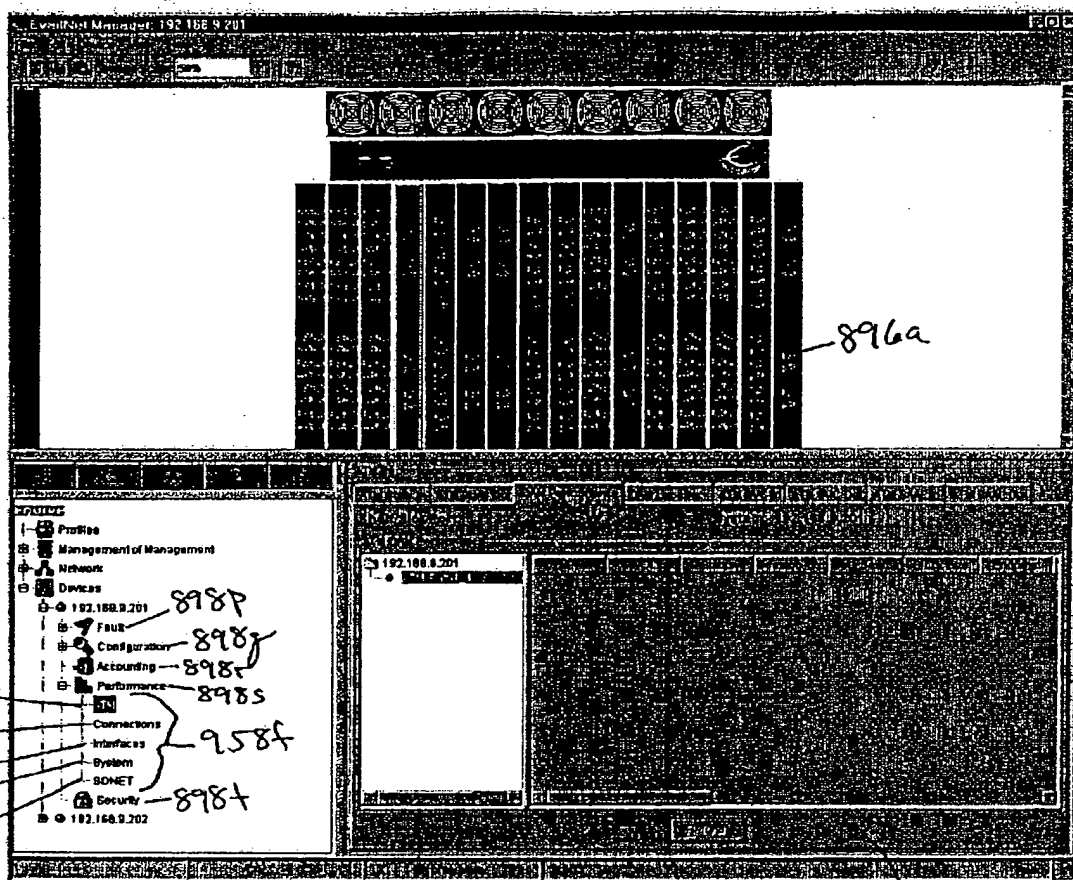


Fig. 7p

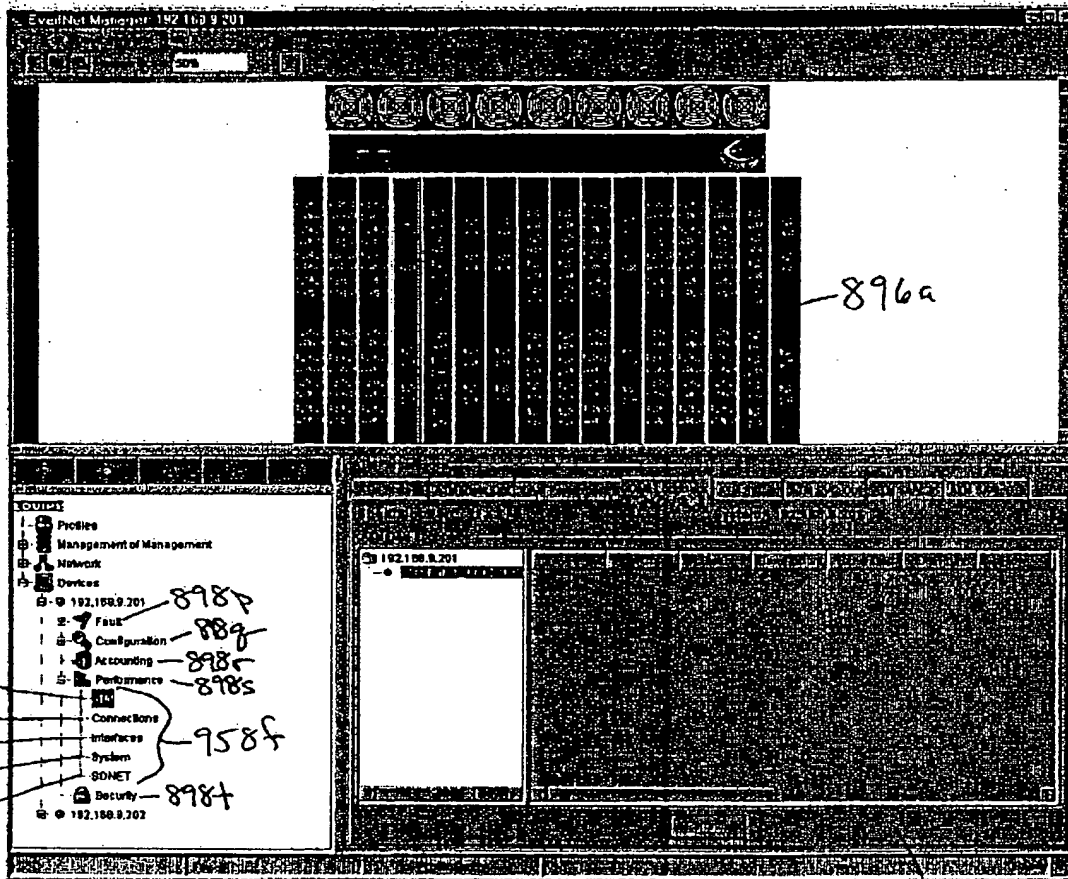
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Fig. 7g

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Fig. 7r

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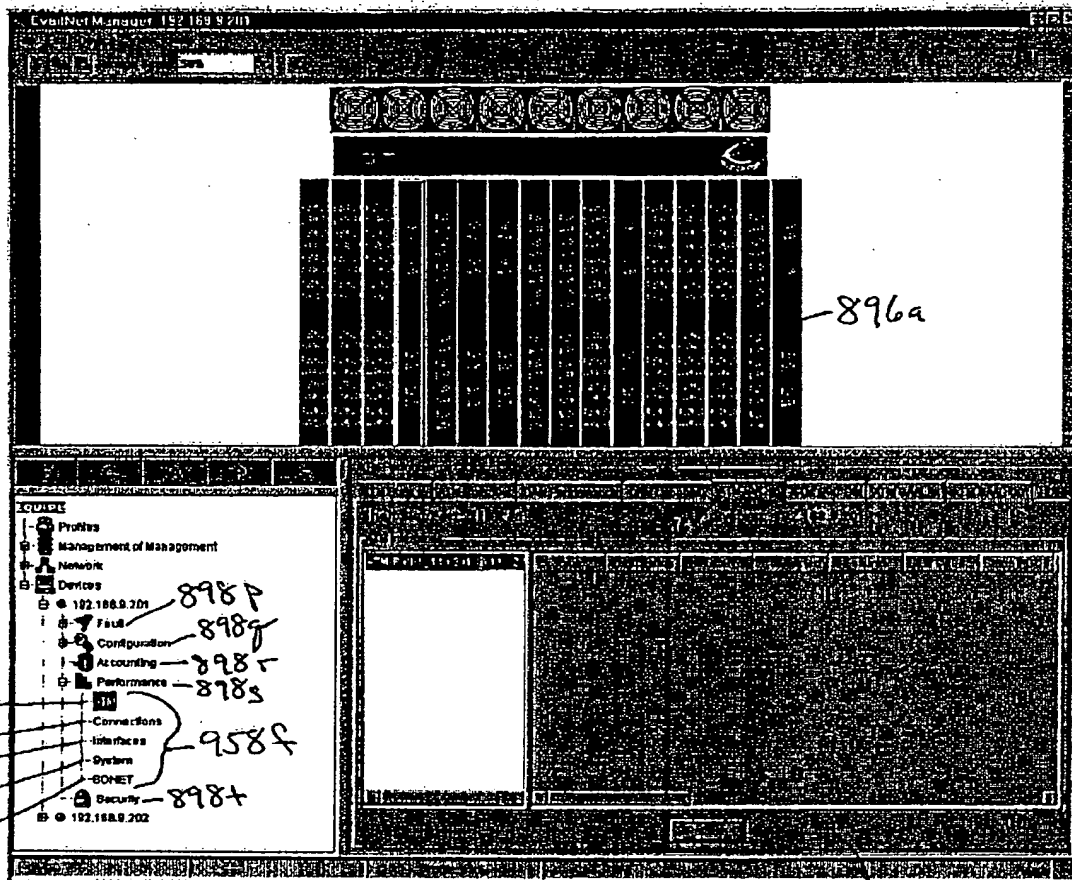


Fig. 7s

895

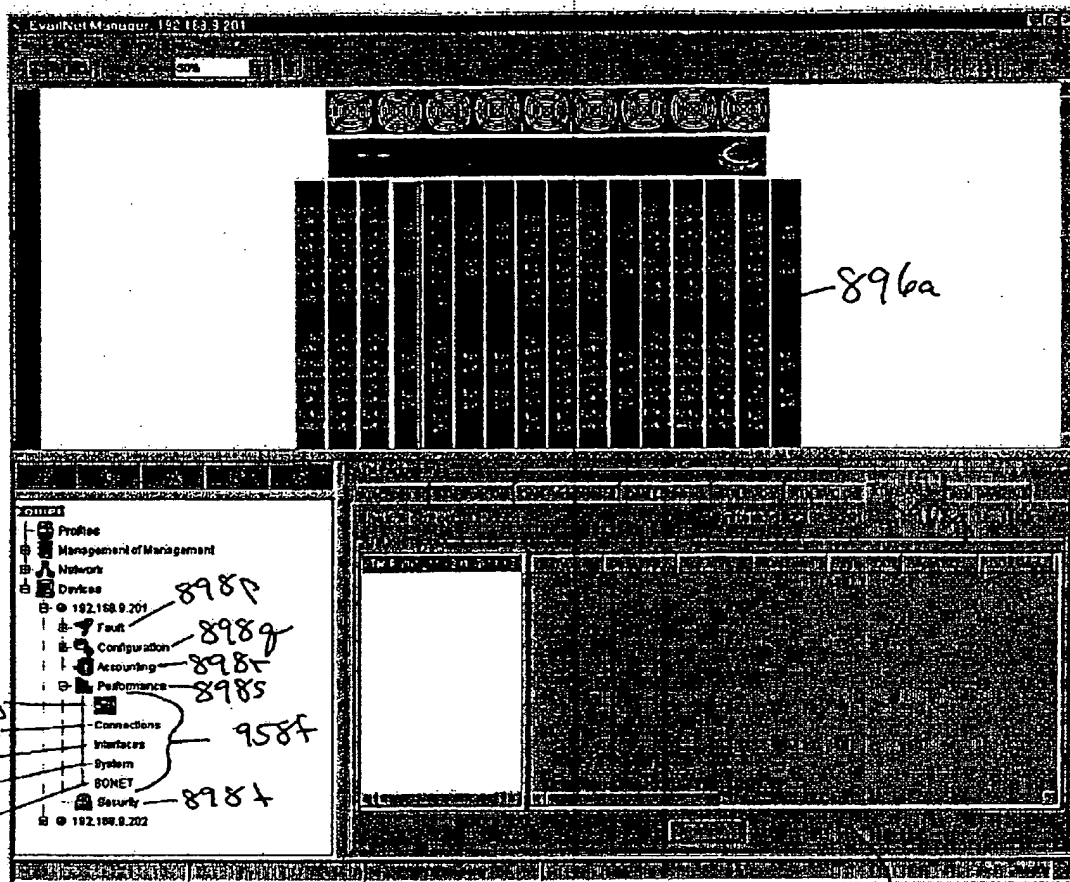


Fig. 7u

895

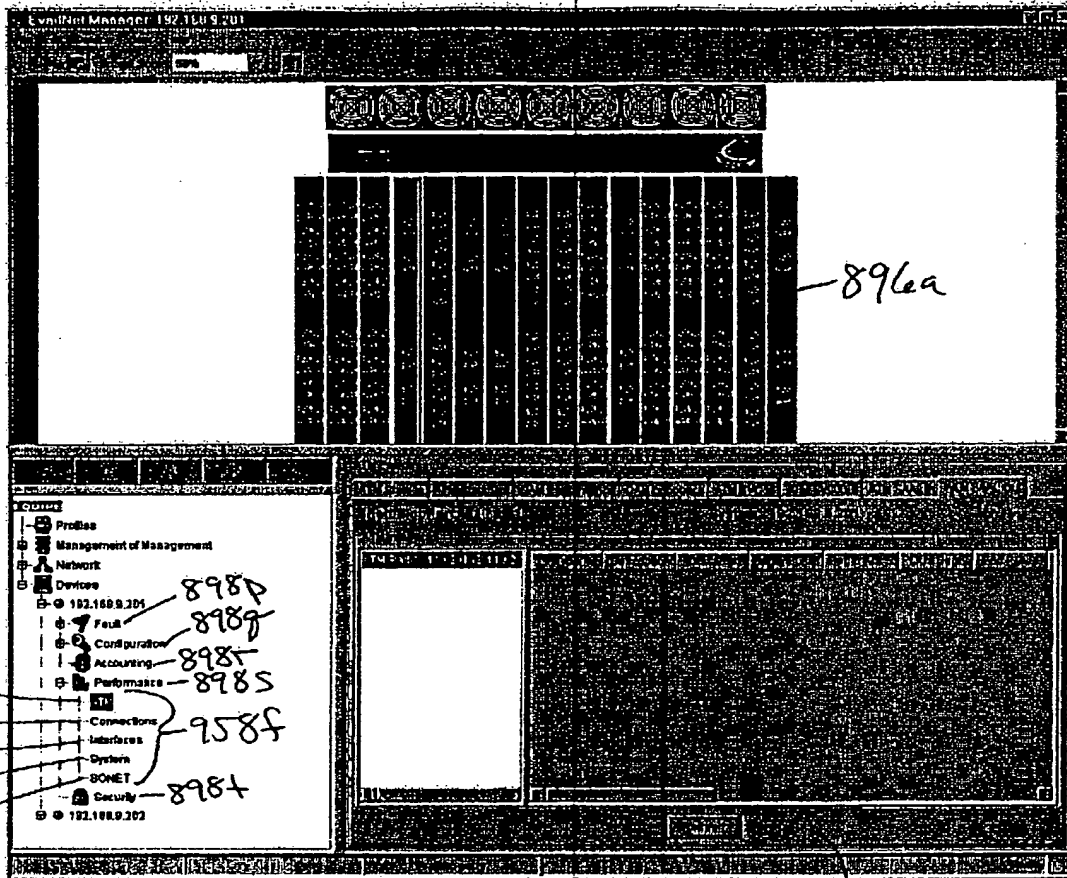


Fig. 7v

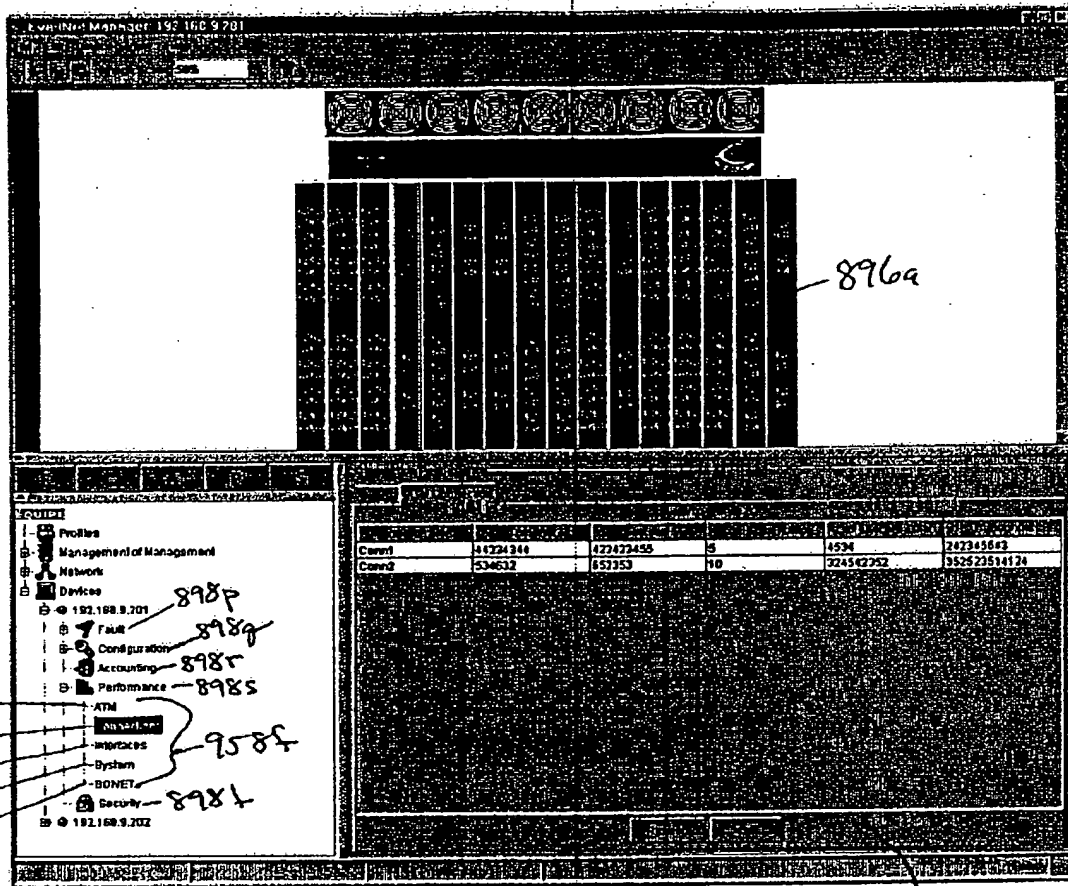
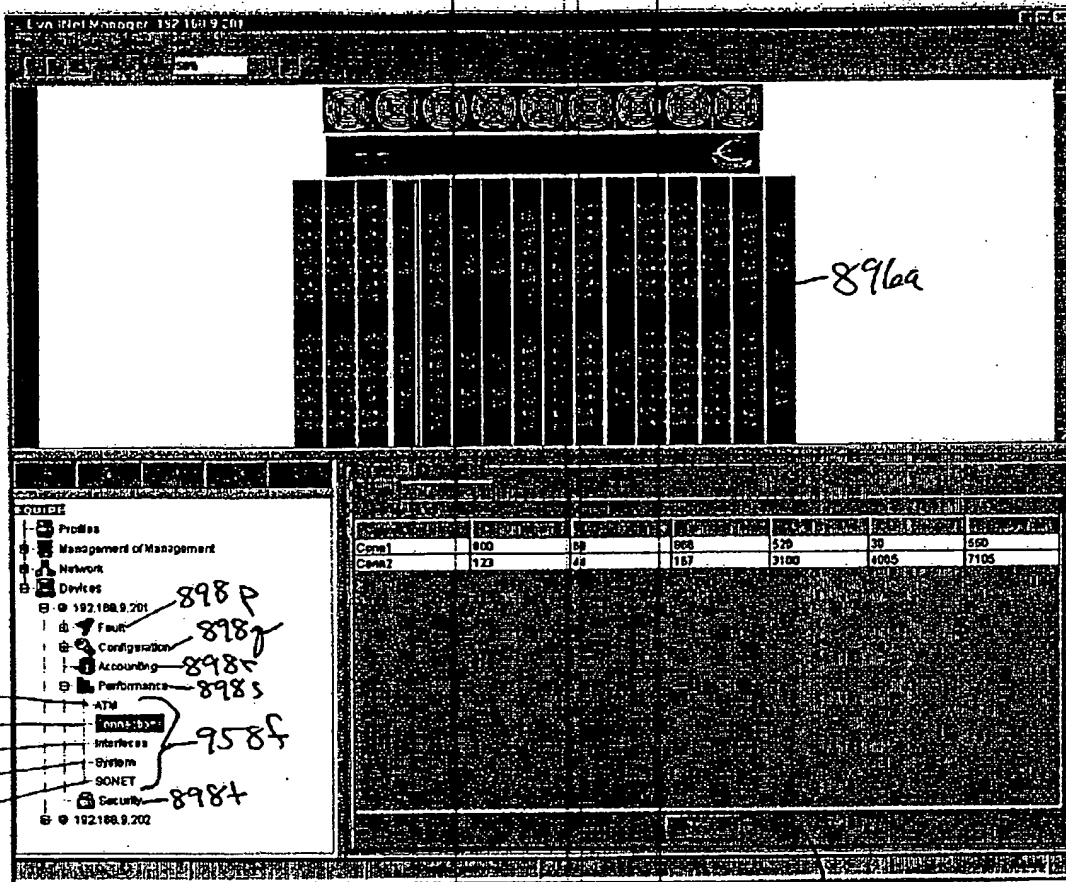


Fig. 7w

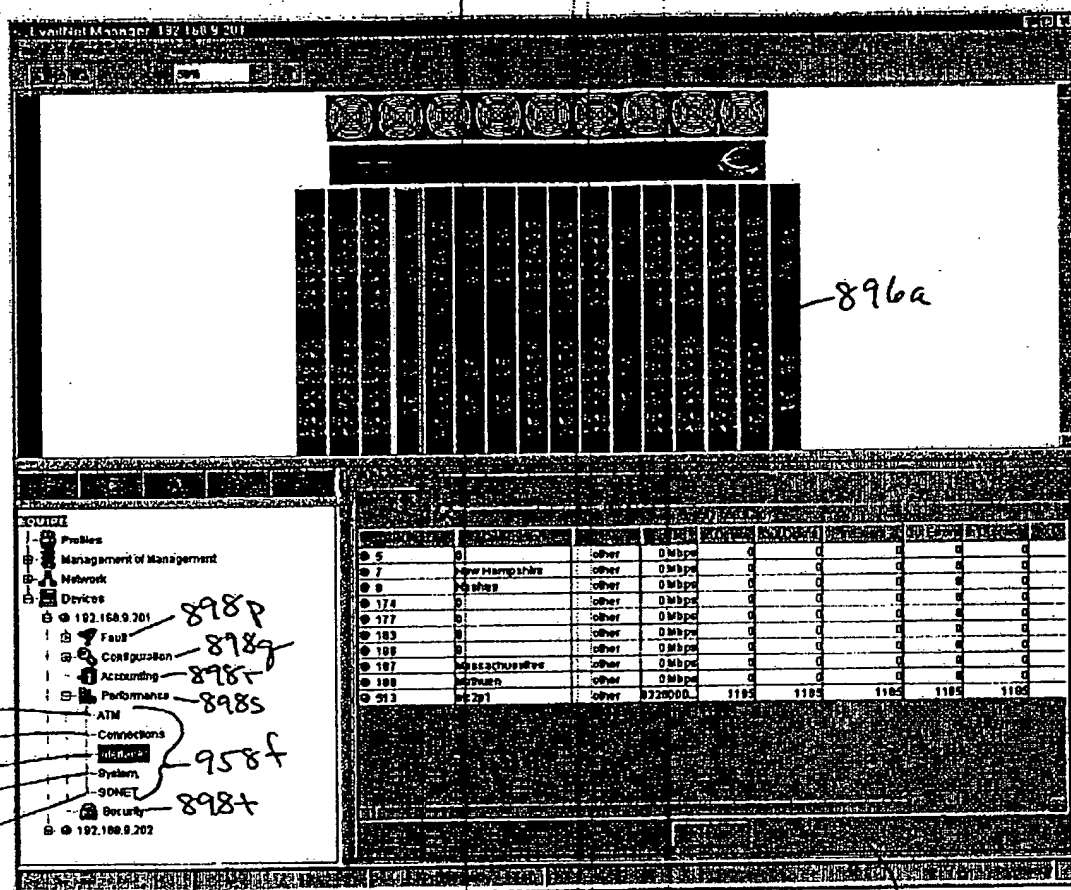
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Fig. 7x

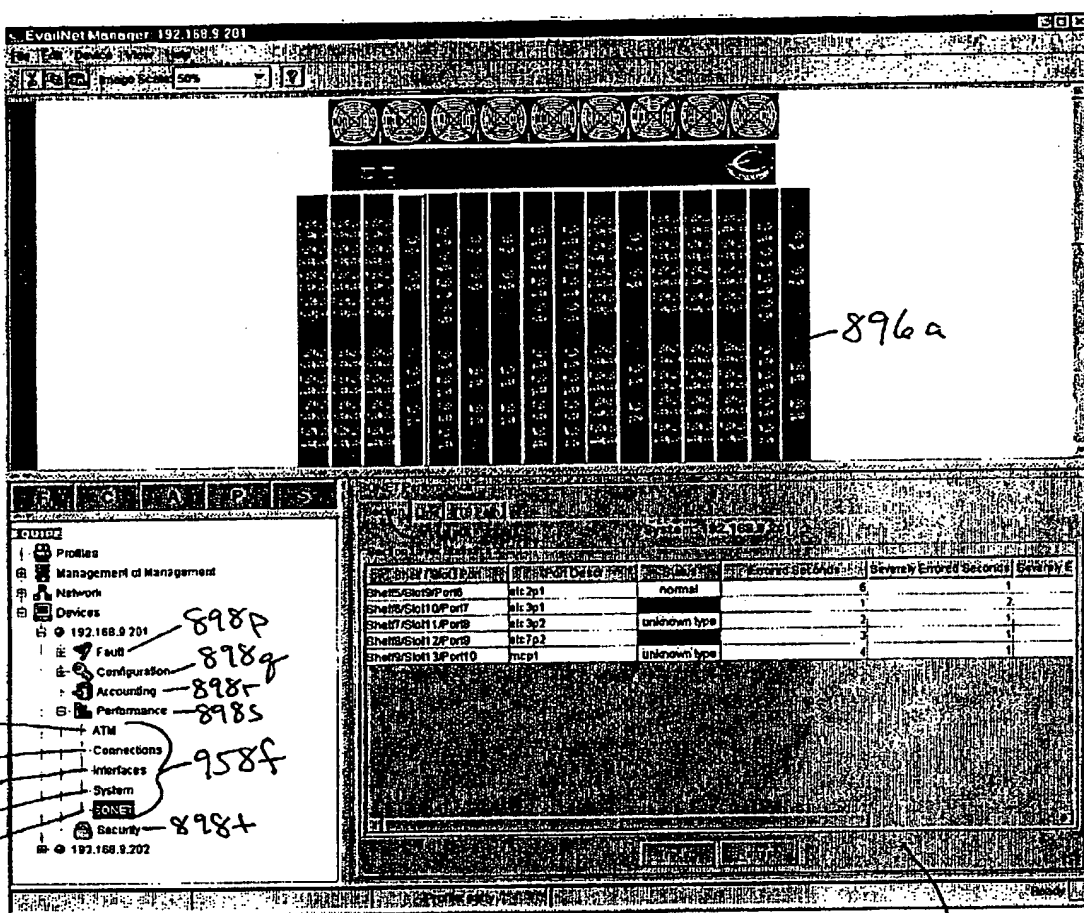
✓ 895



897

Fig. 74

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896a

958g
958h
958i
958j
958k

898p
898q
898r
898s
898t
898u
898v
898w
898x
898y
898z

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Fig. 8a

895

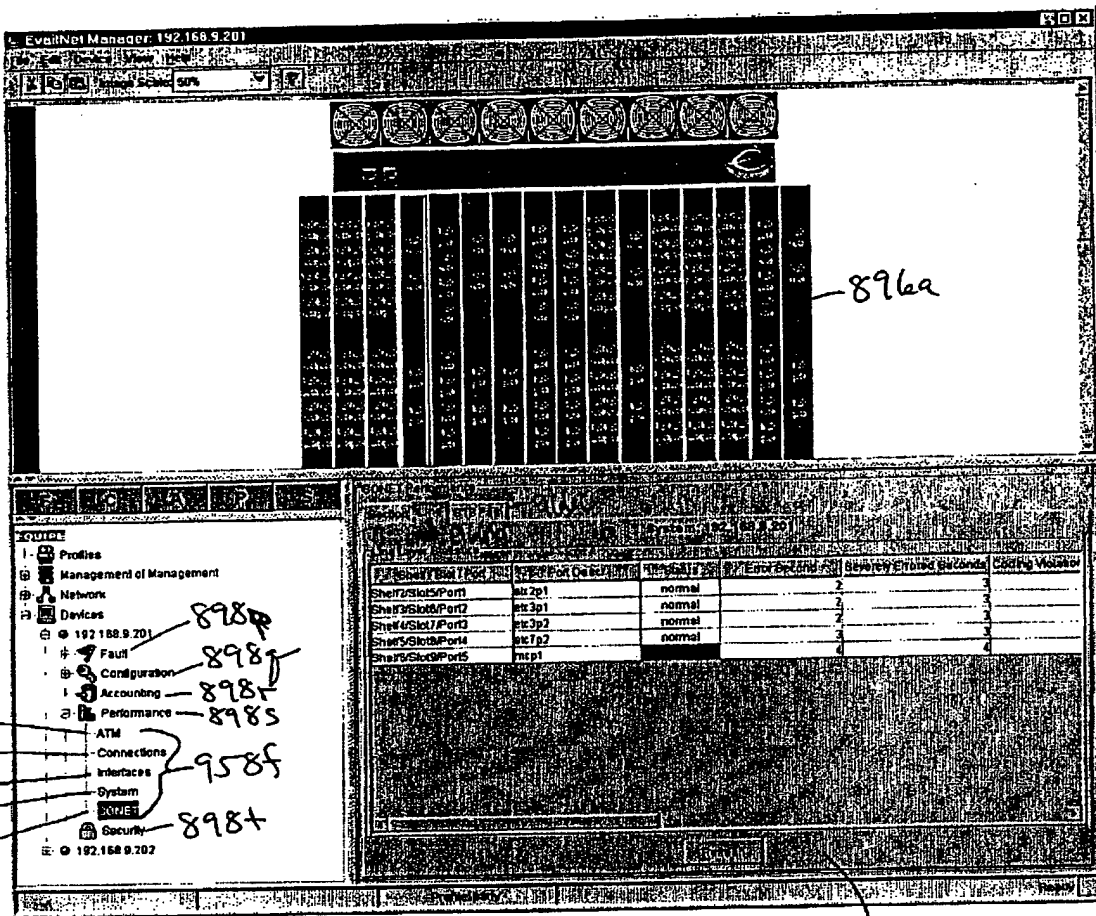


Fig. 8b

895

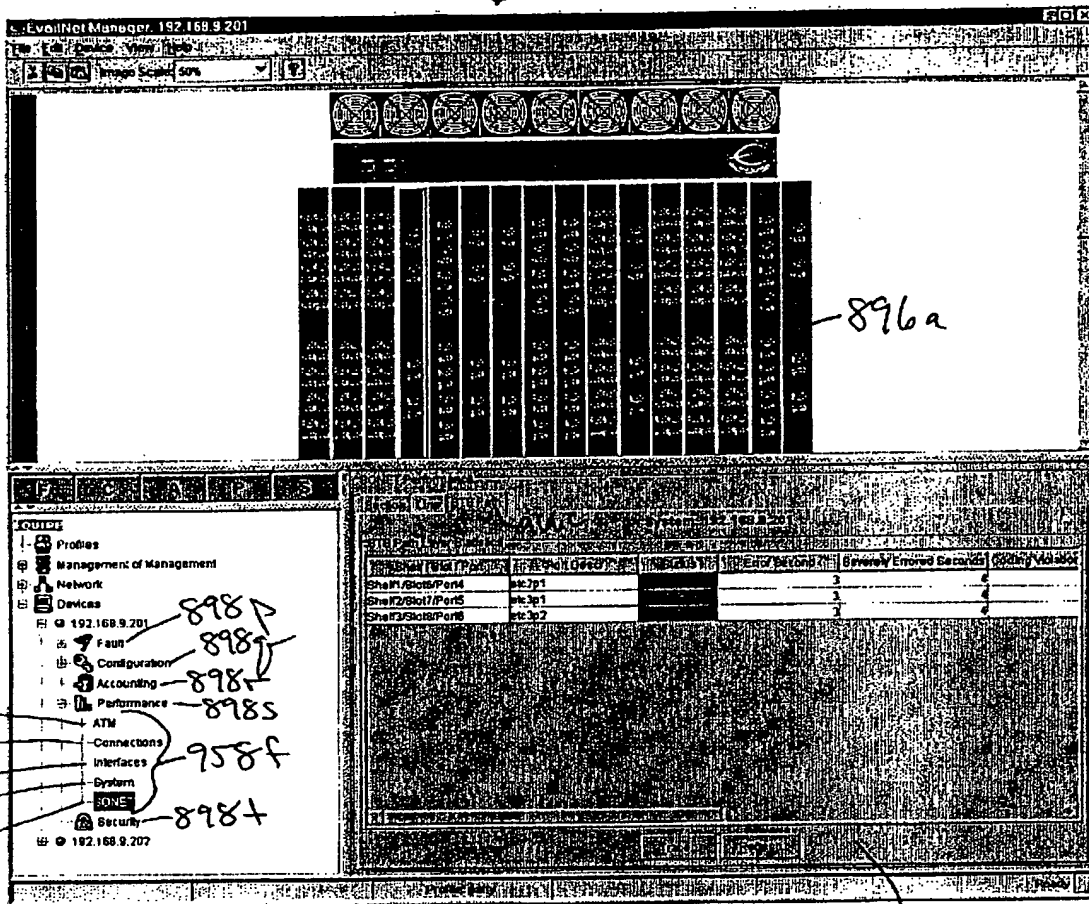
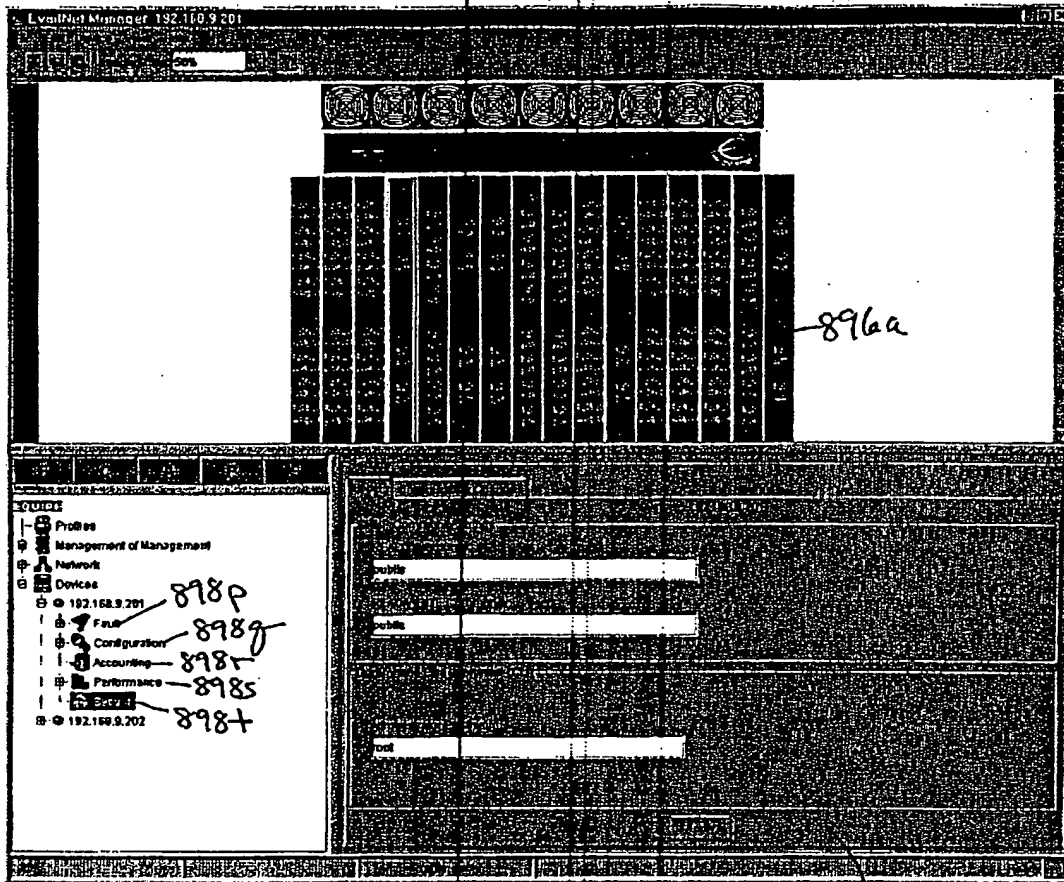


Fig. 8c

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897

Fig. 8d

895

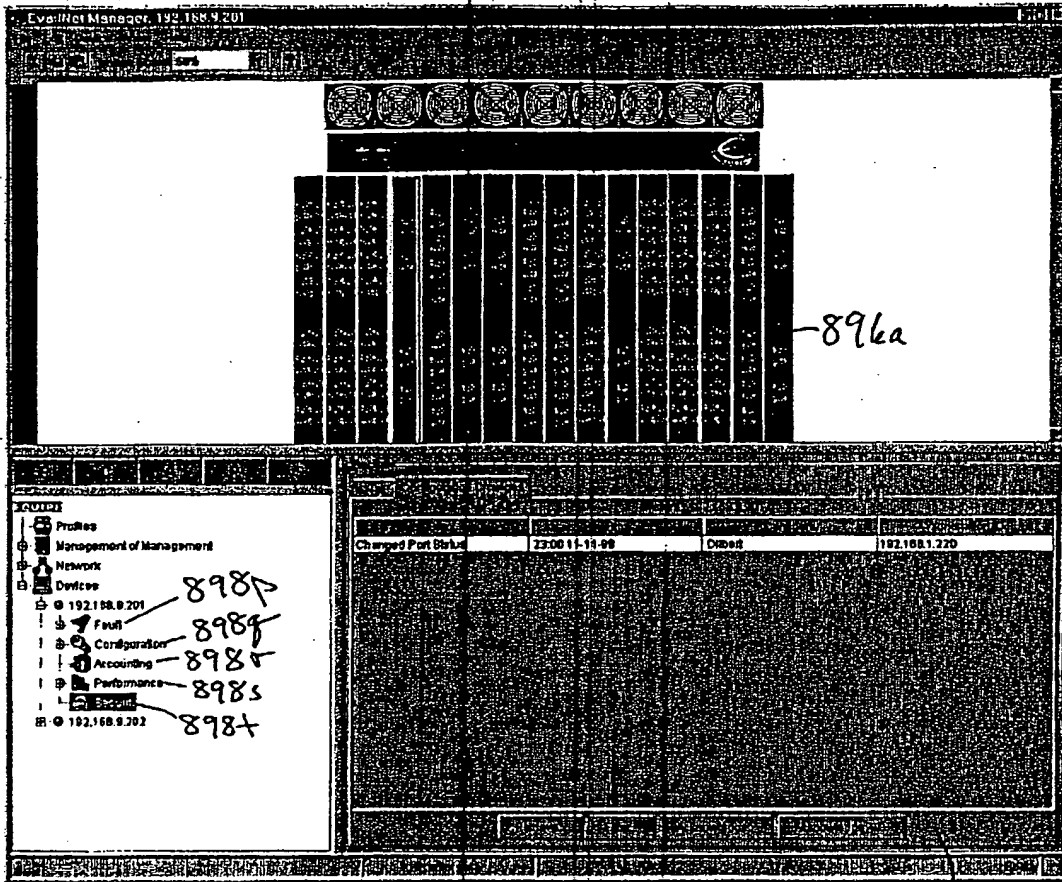


Fig. 8e

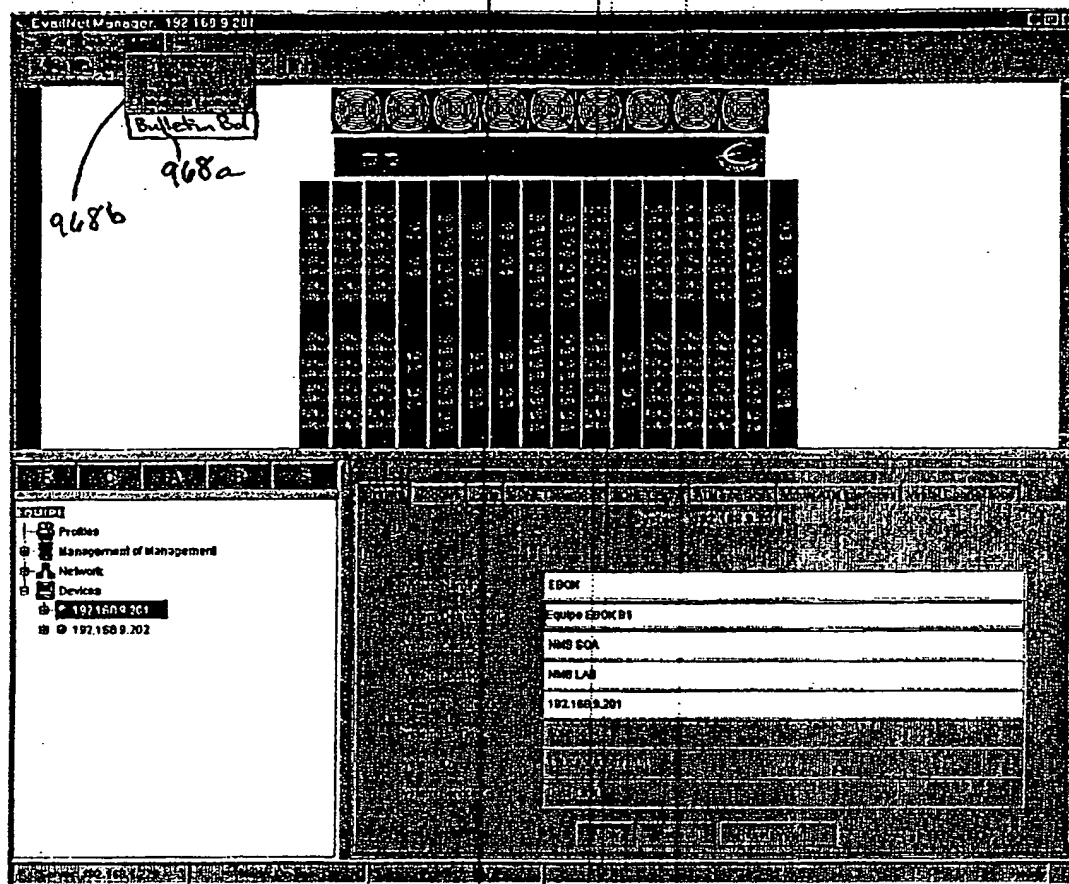
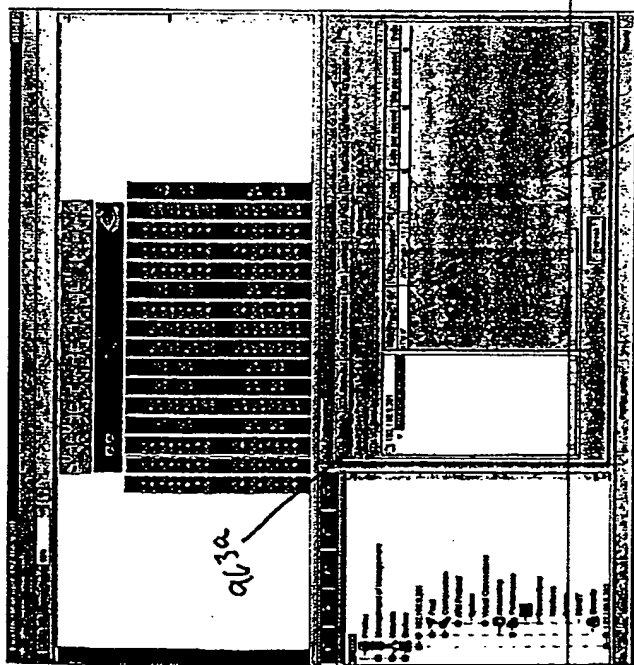


Fig. 9a

970a

971c

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963a

963a

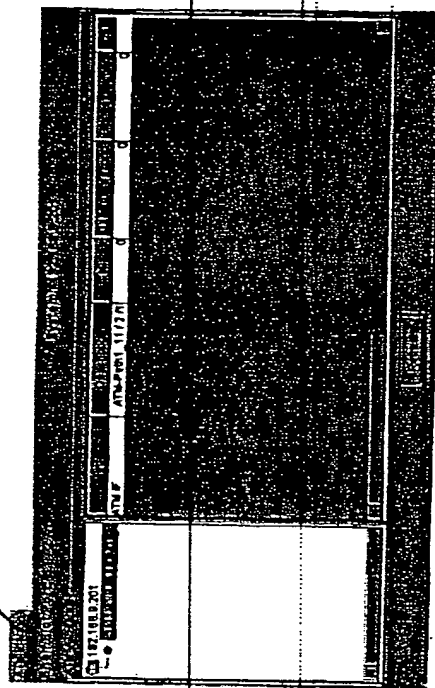
969a

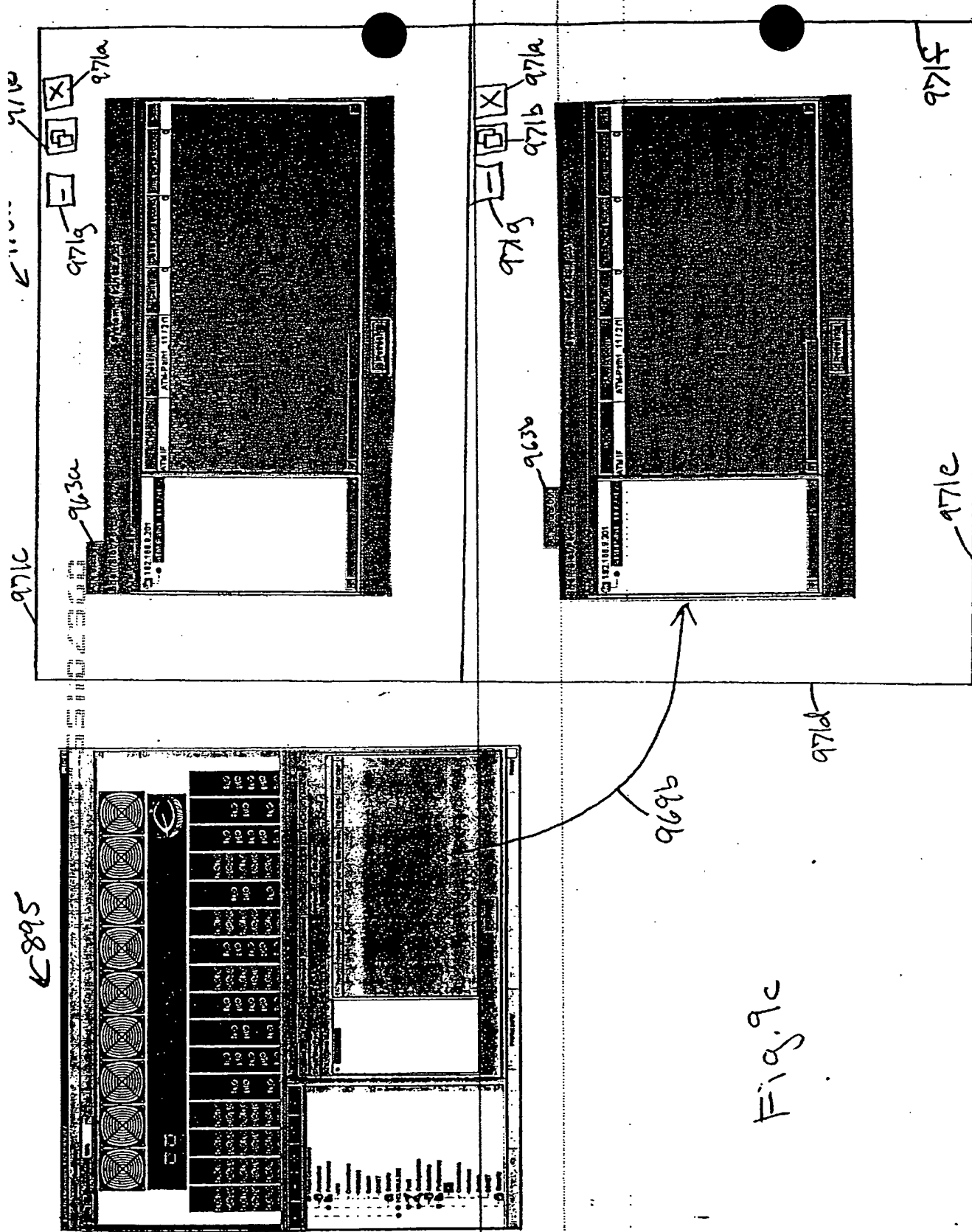
971d

Fig. 9b

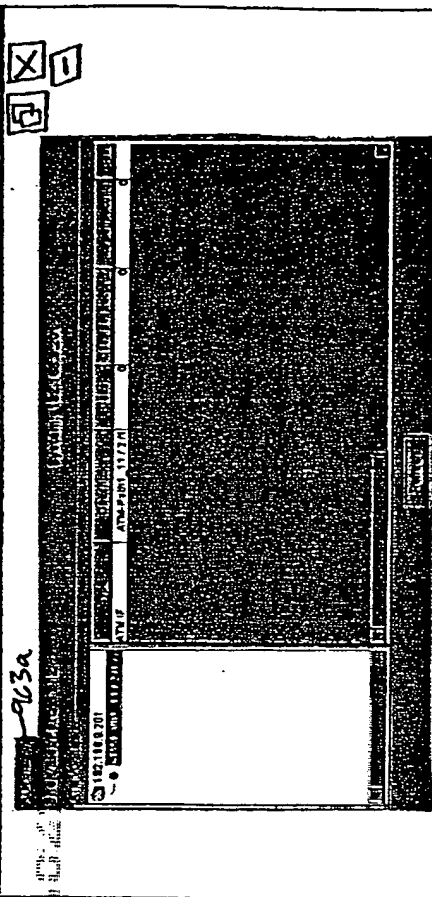
971e

971f

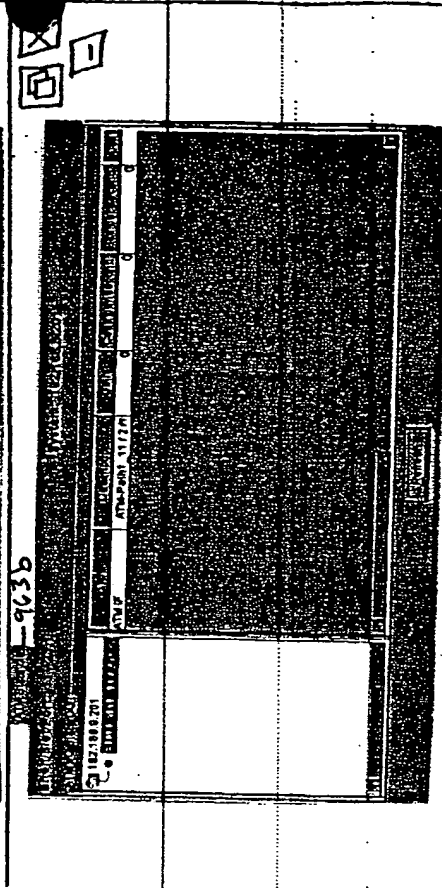




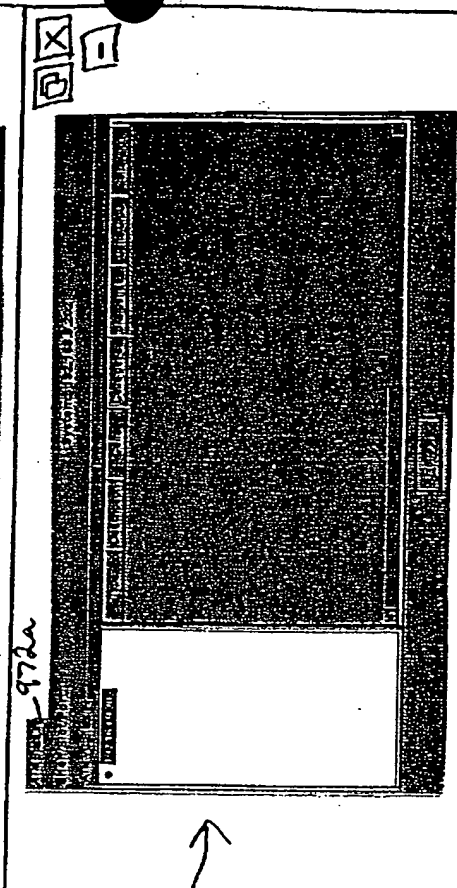
963a



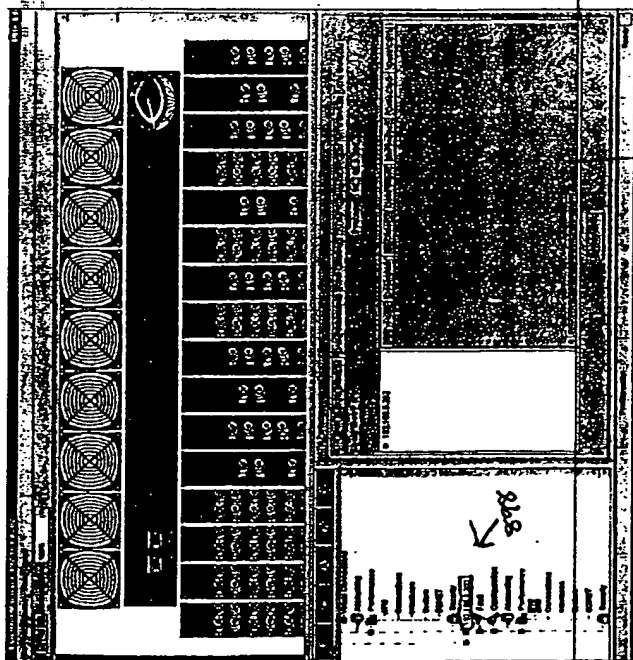
963b



972a



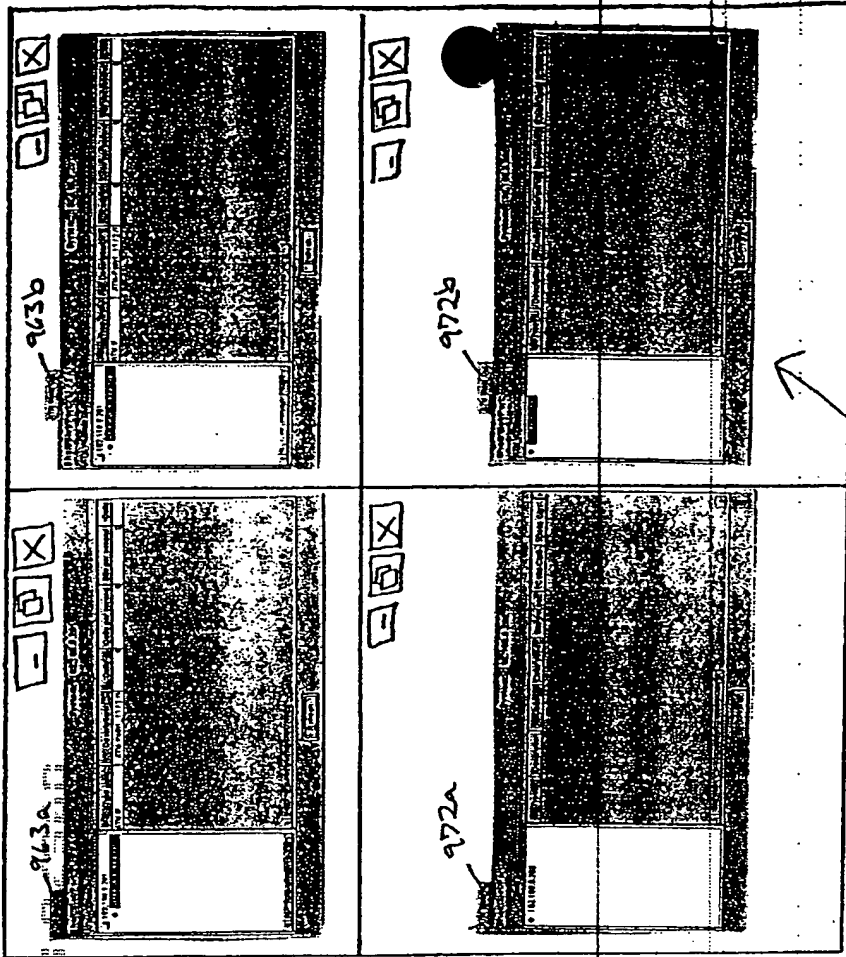
989



969c

Fig. 9d

← 112a



← 895

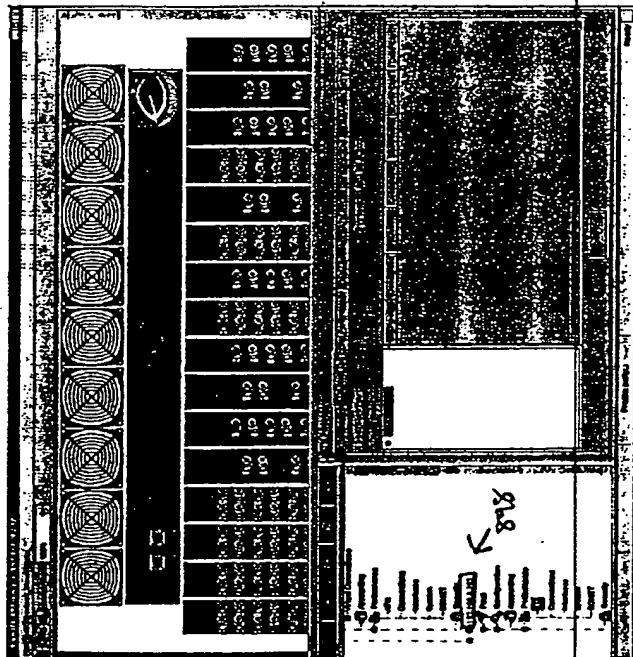


Fig. 9e

969d

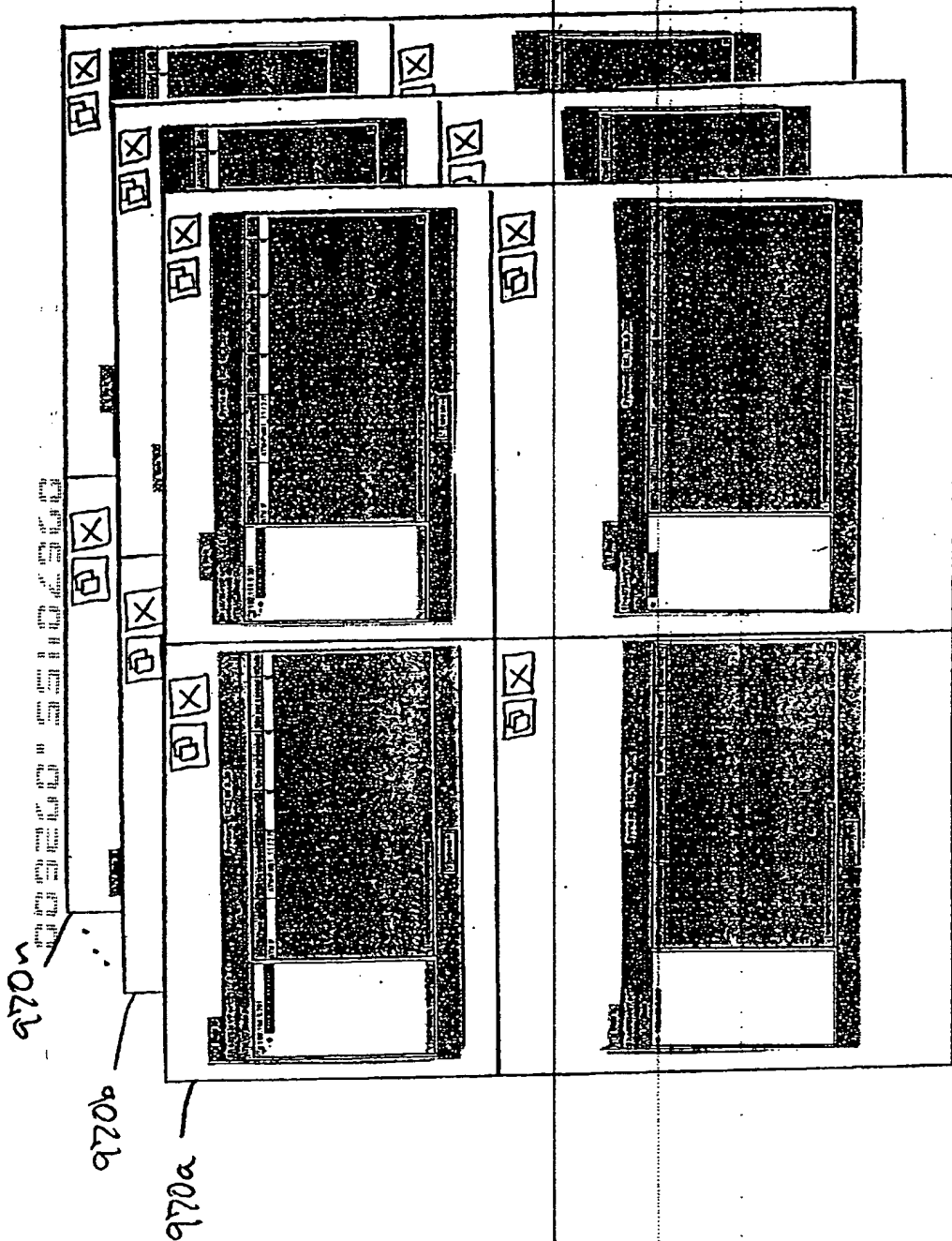
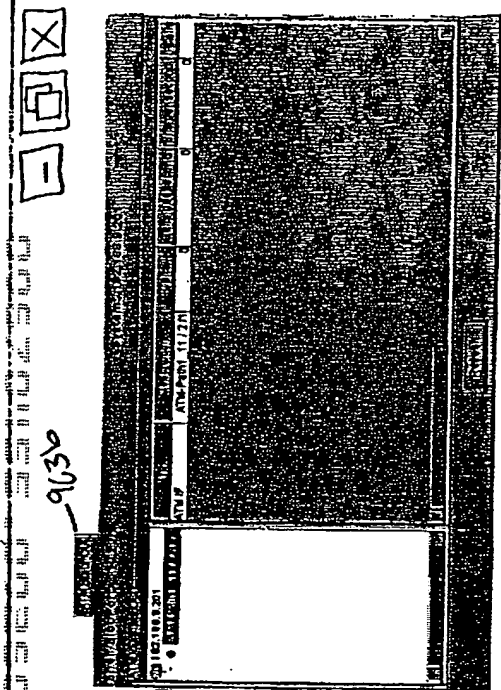


Fig. 9.98

970a



963a

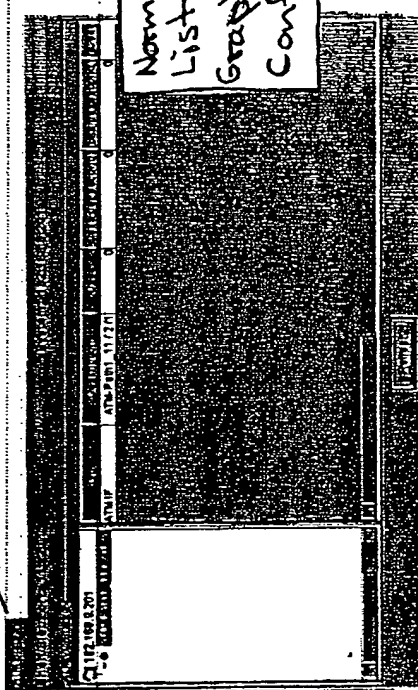
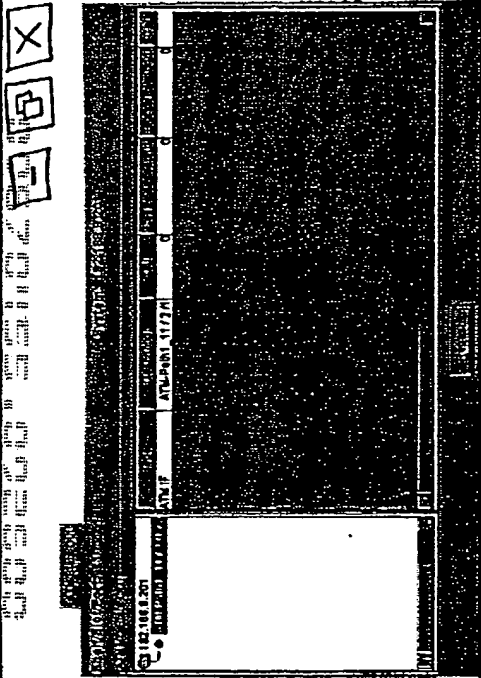


Fig. 9g

← 970a



System: 192.168.9.201

Type: ATM IF

Description: ATM-Path 1_11/2/1

Cells:

Cells Per Second:

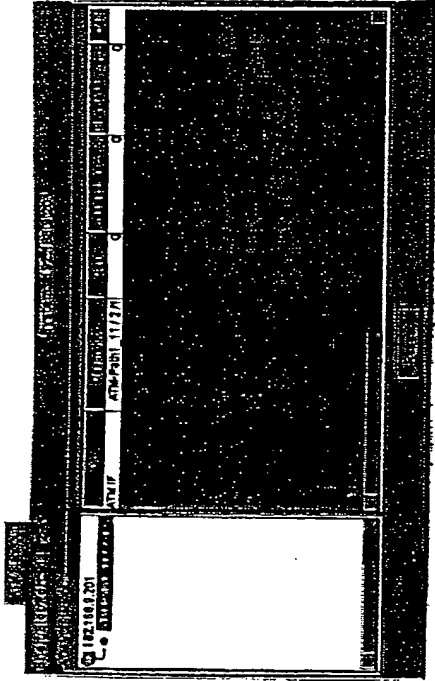
Bits Per Second:

•
•
•

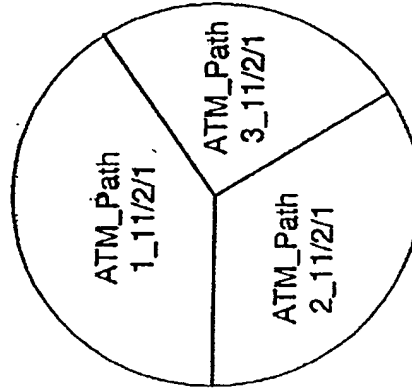
974a

Fig. 9/14

↙ 110a



Cells Per Second

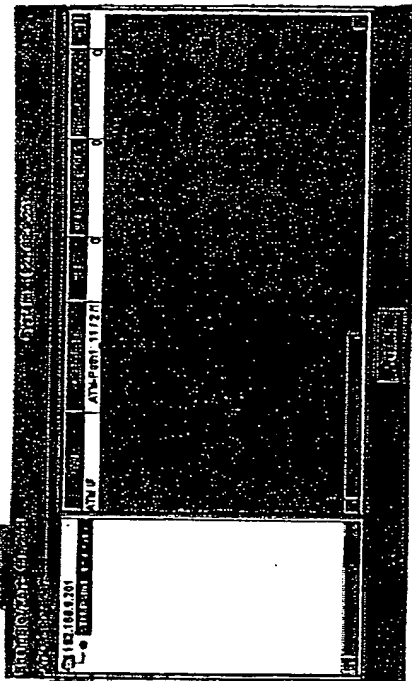


← 9746

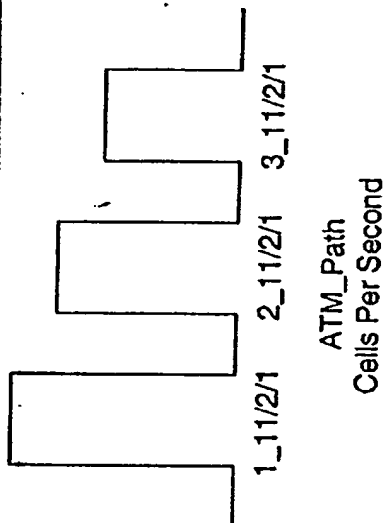
Fig. 9i

✓ 7/10a

□ □ □ □ □



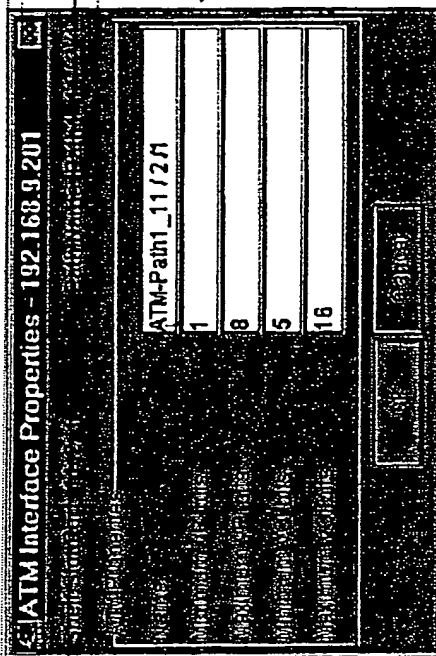
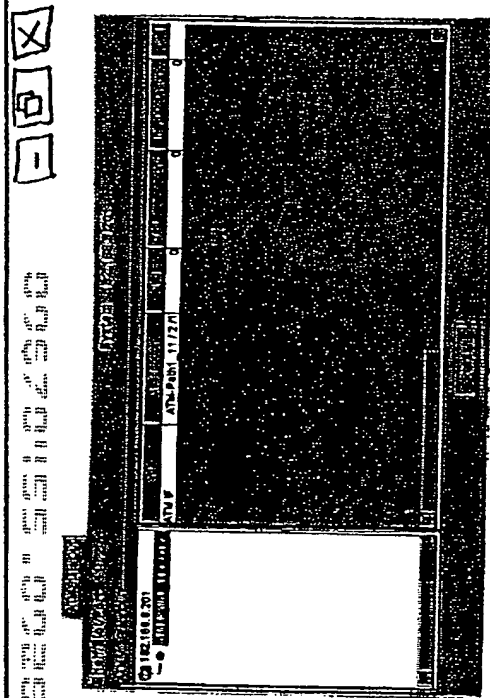
□ □ □ □ □



← 974c

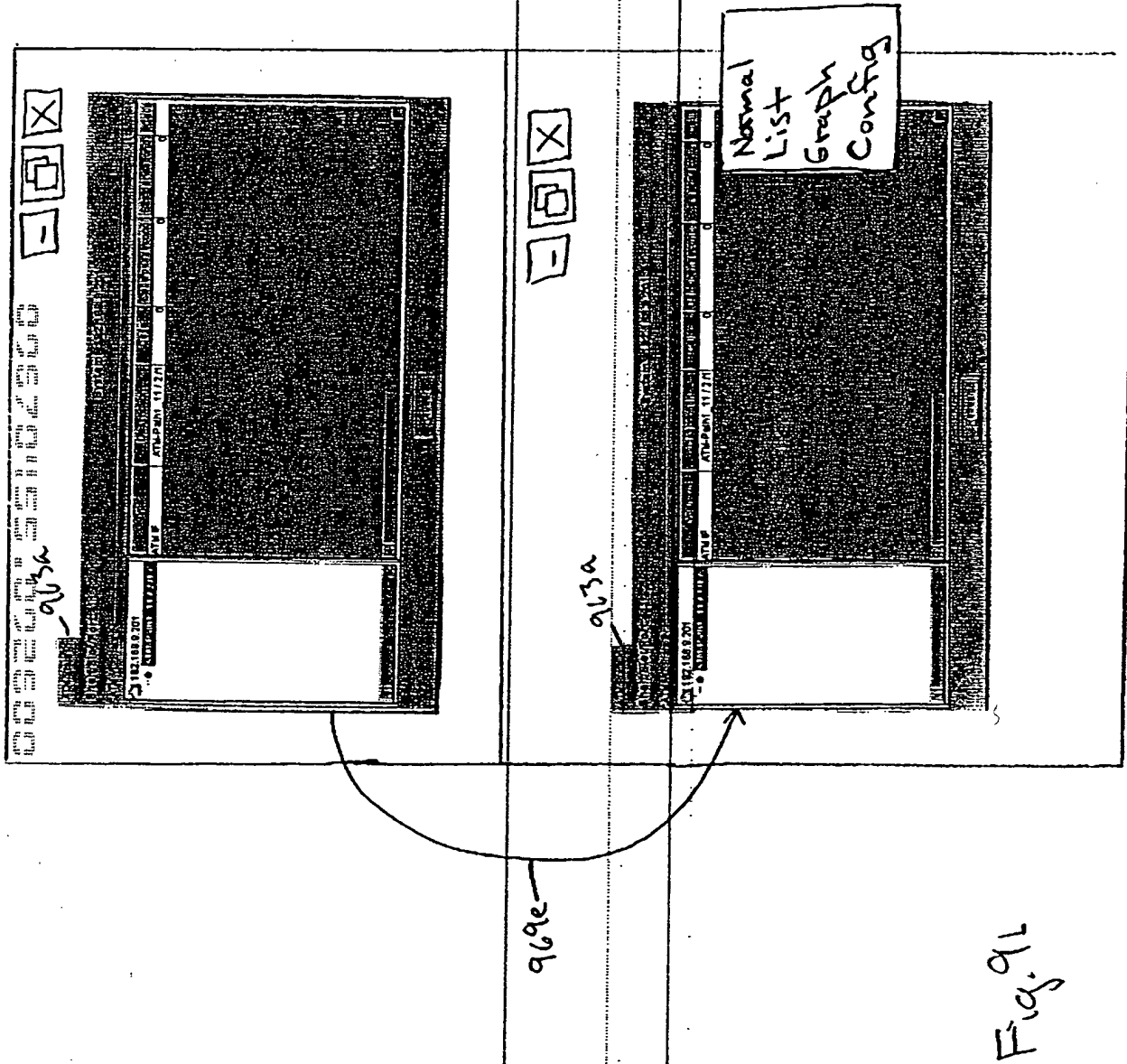
Fig. 9j

4.10a



974d

Fig. 9K



8970a

System: 192.168.9.201

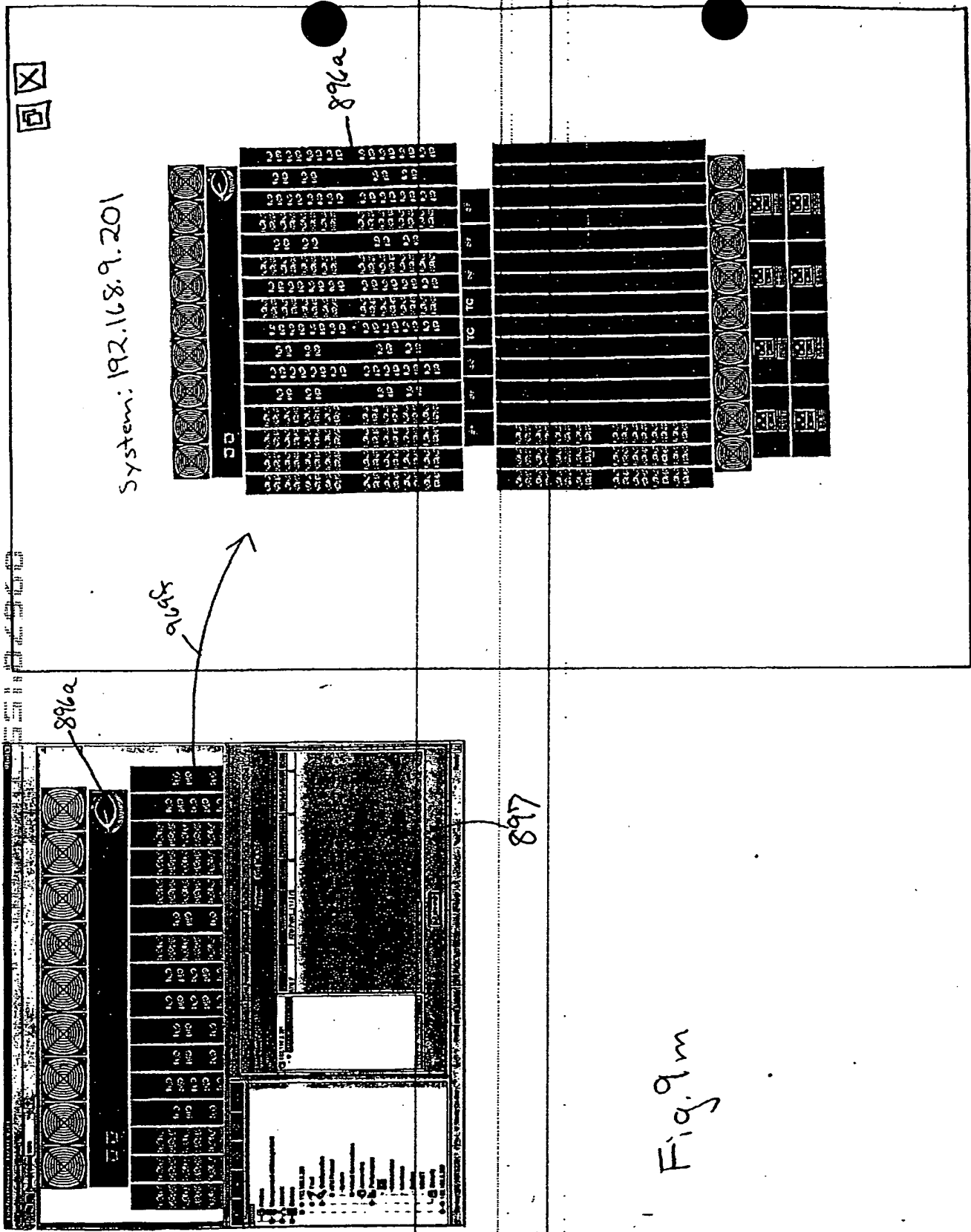
896a

896b

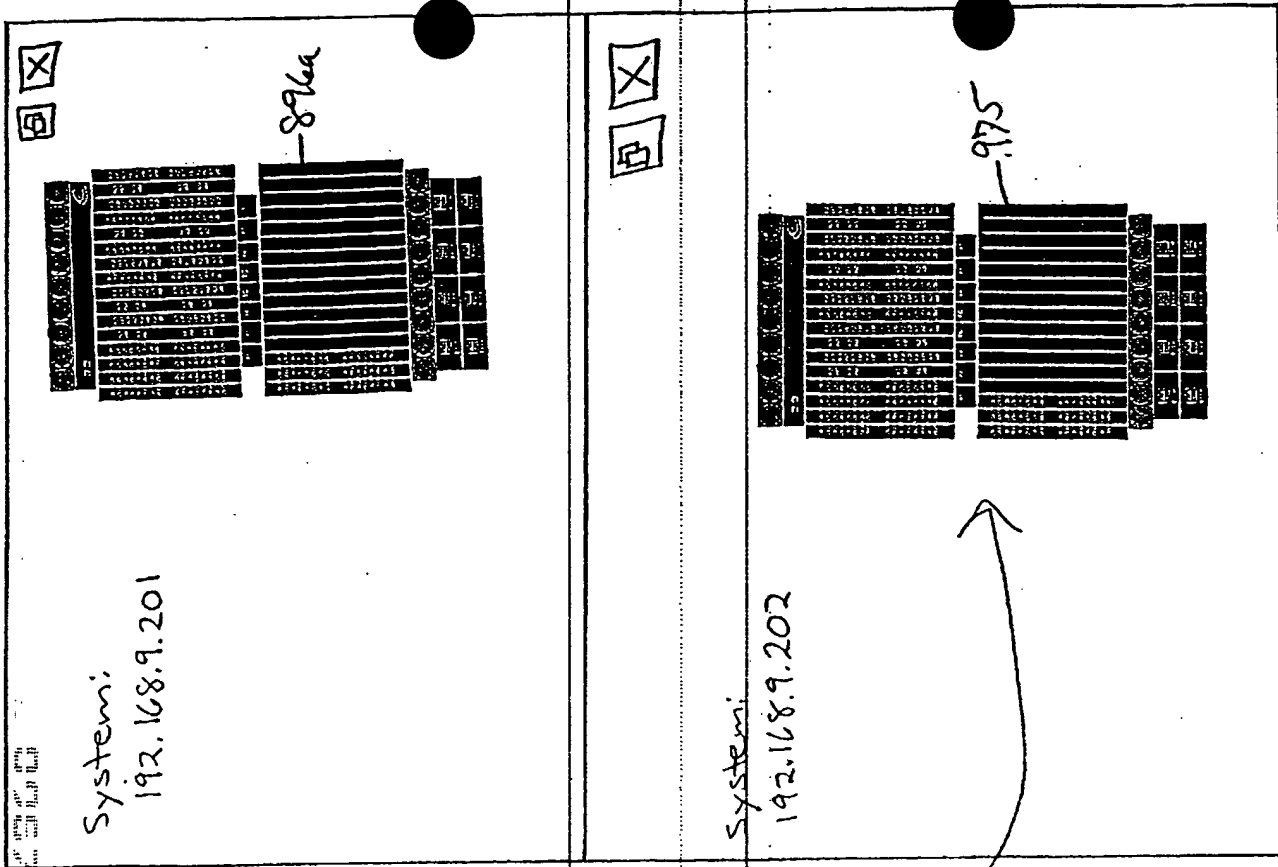
896a

897

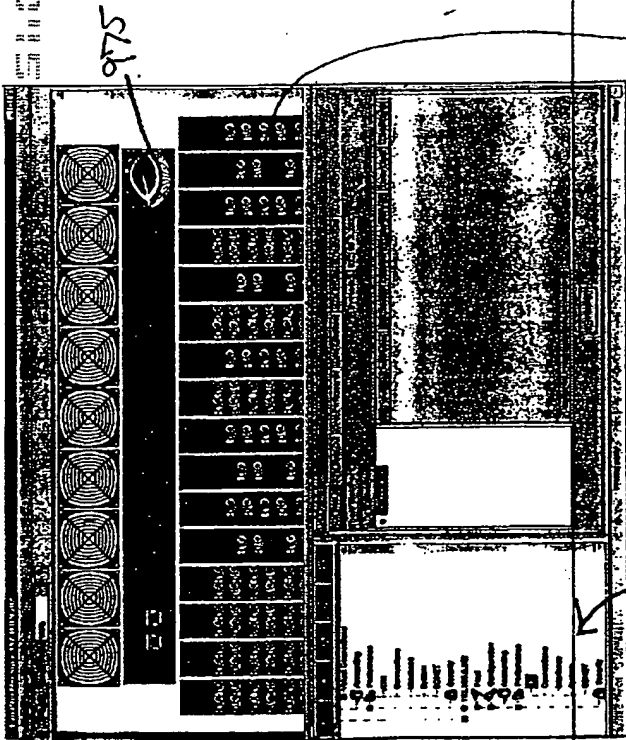
Fig. 9m



970a



895



969g

Fig. 9n

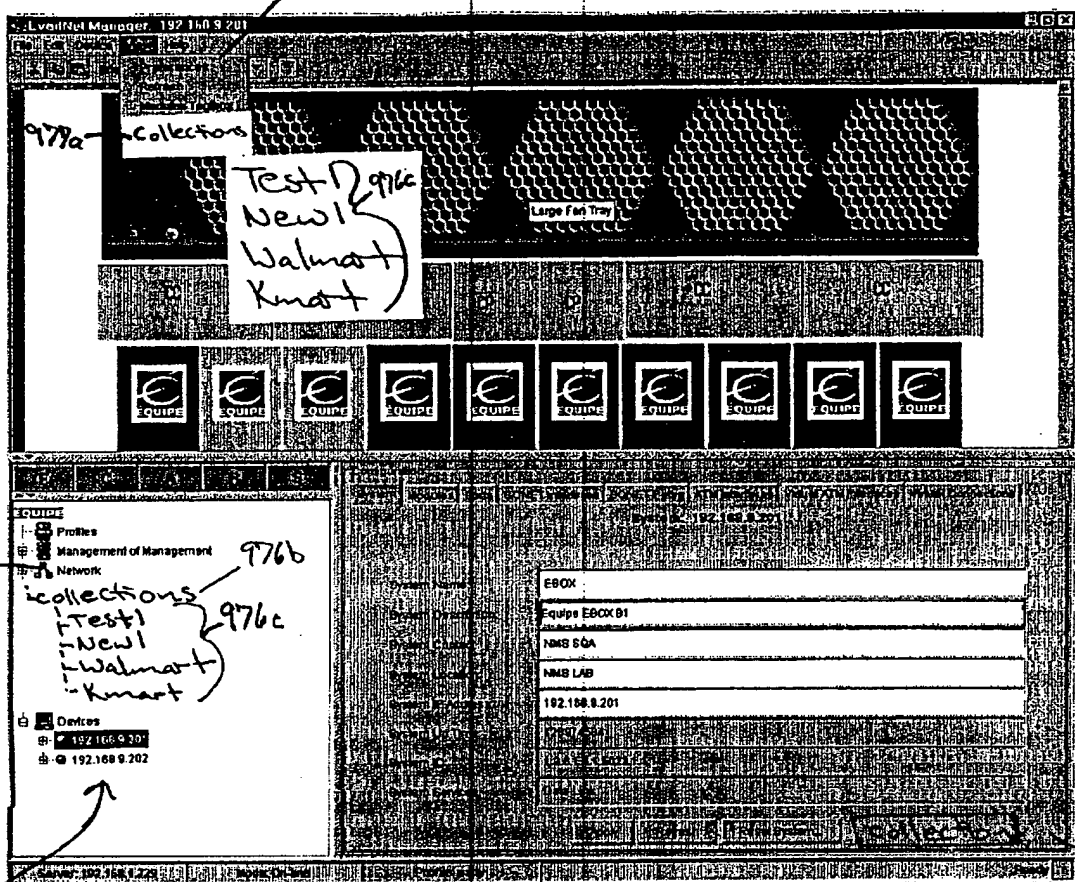


Fig. 10a

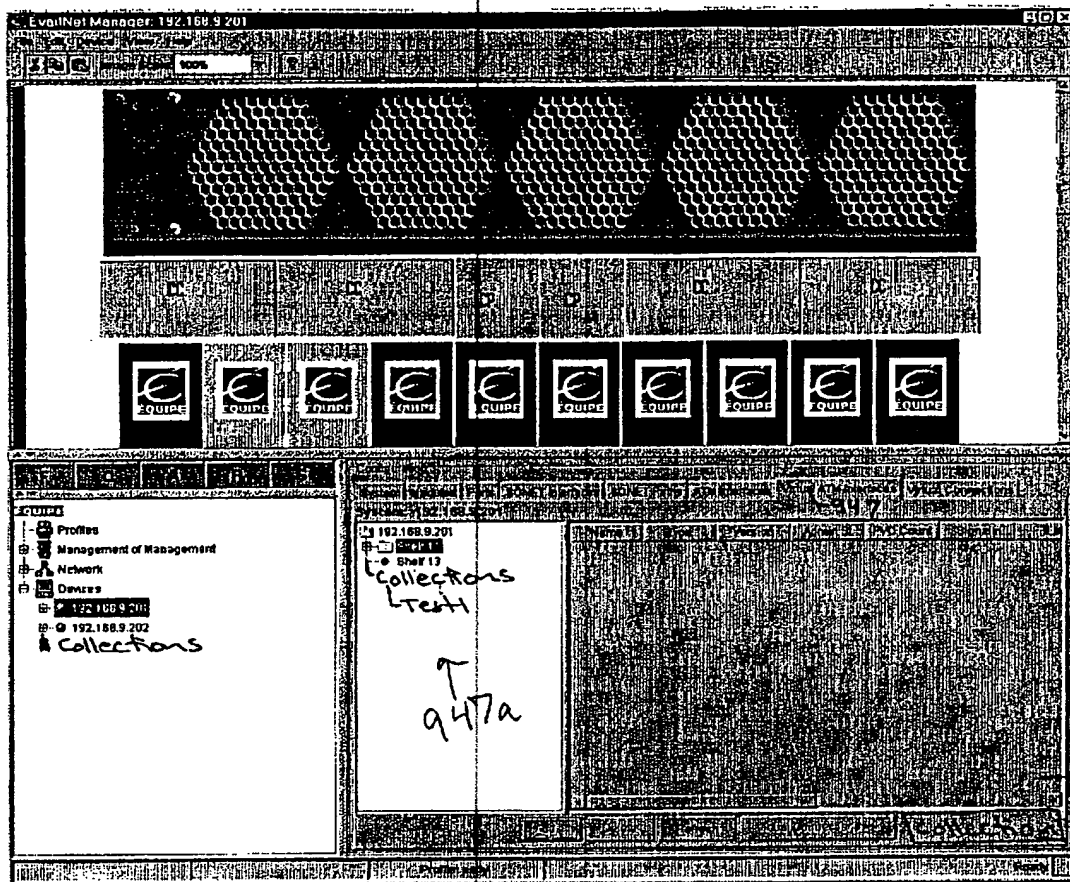


Fig. 10c

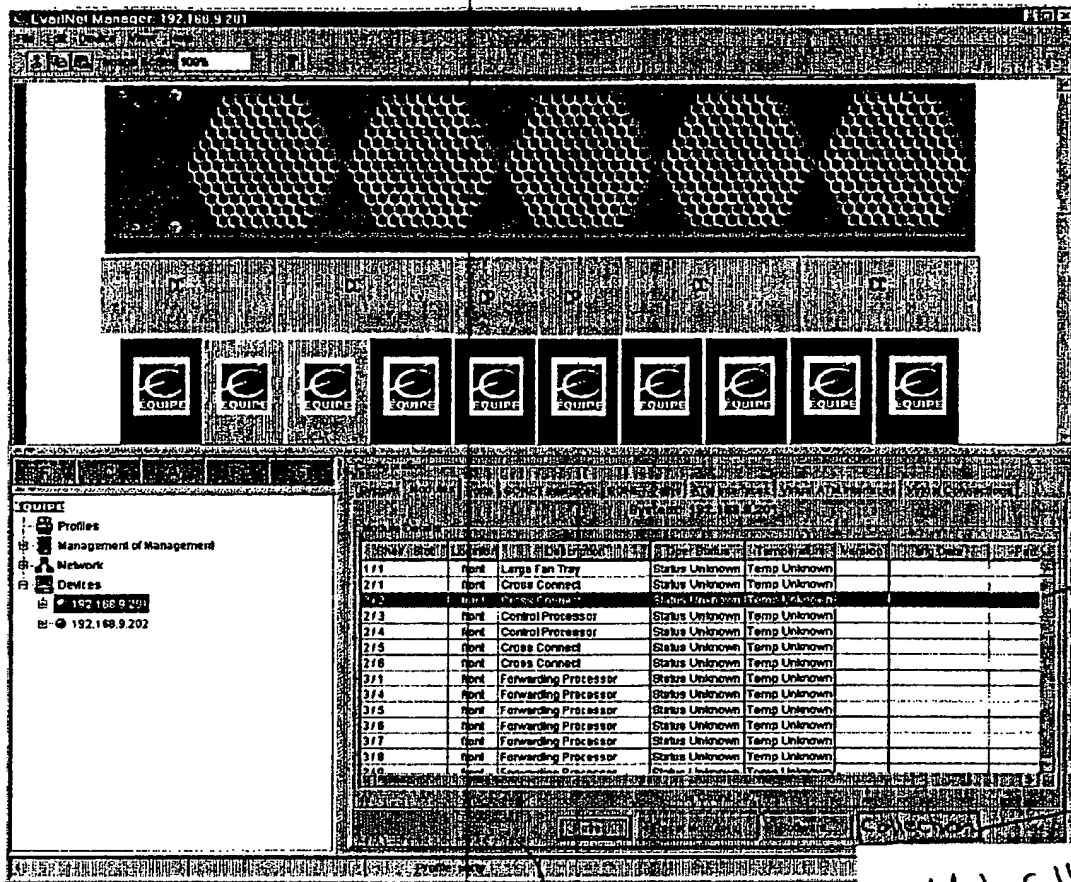


Fig. 10d

897

Add to Collection
New Collection

979c

979d

Collection Name:

OK

Fig. 10e

979e

Existing Collections:

Test1
New1
Walmart
Kmart

OK

Fig. 10f

979f

979g

895

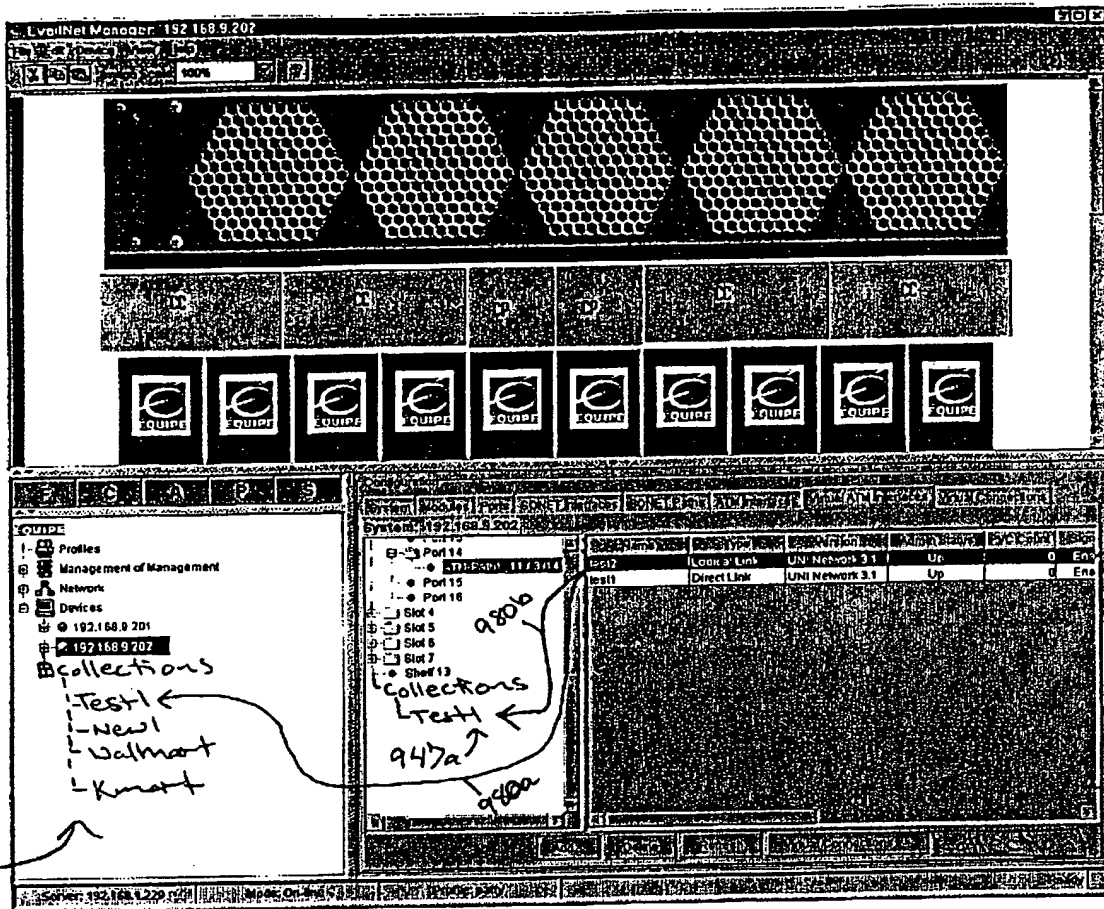


Fig. 109

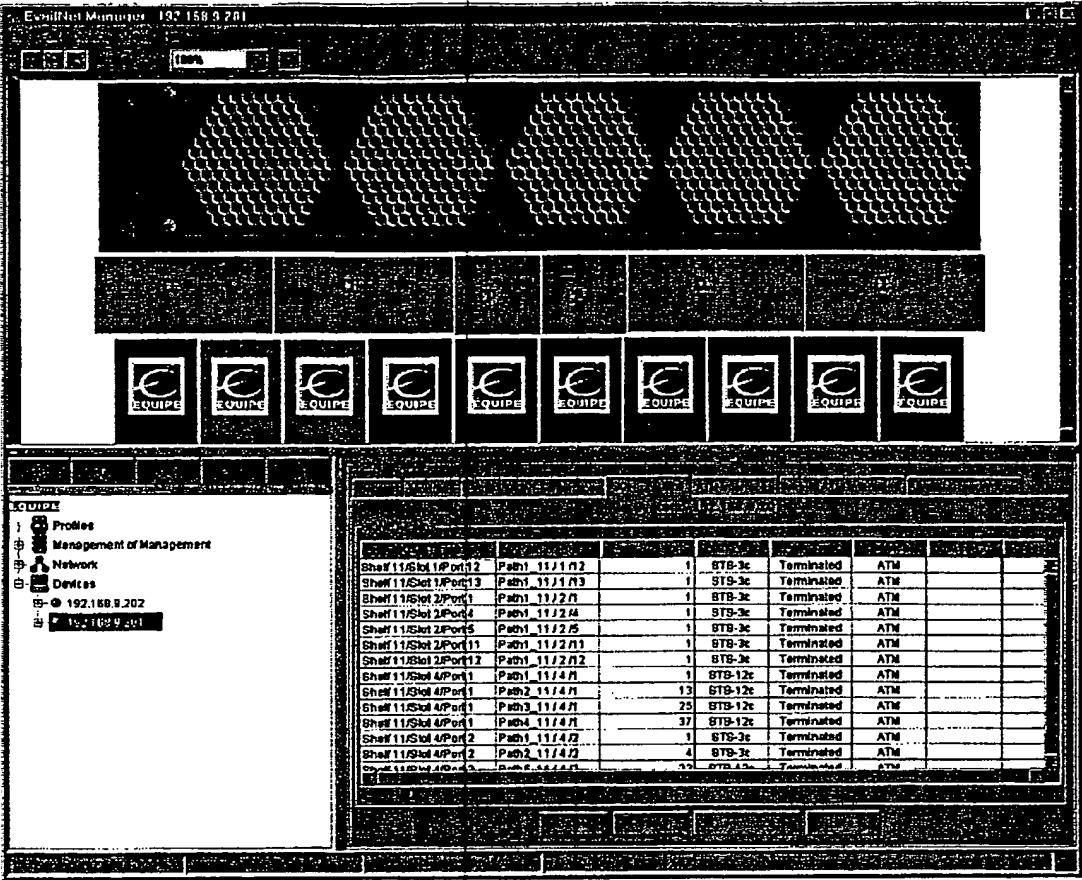


Fig. 10h

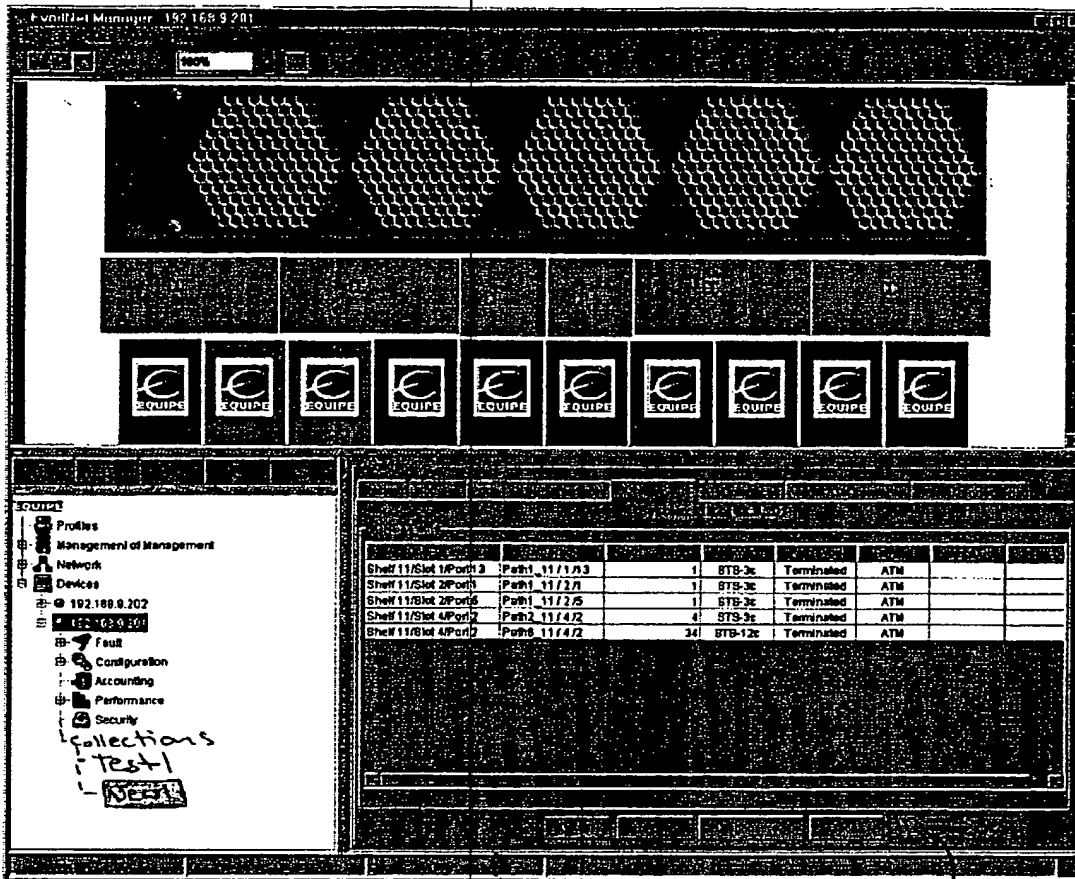


Fig. 10i

982

904

Name	Description	Security Level	Timeout	Primary Server	Secondary Server
Joe	Joe Whitehouse	Admin	15	192.168.1.32	192.168.1.37
Wayne	Wayne Arena	Provisioner	15	TeamServer1:192.168.1.32	TeamServer2:192.168.1.37

905

906

2587

Fig. 11a

107

General

Username: Kevin

Description: Kevin Snow user account

Group Name: Equipe

Group Level Access:

Password: *****

Confirm Password: *****

Policies

☒ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

Servers

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.221

Secondary Server Port: 6503

Devices

IP Device	READ	READWRITE	Relay	Timeout
192.168.9.202	public	equipe	3	5
192.168.9.205	public	equipe	3	5
192.168.9.216	public	equipe	3	5

OK Cancel

908a

908e

908f

908d

908b

908c

908h

908i

908j

908k

908l

908n

908m

908o

908p

908q

908r

908s

908t

Fig. 11b

Fig. 11c

General Policies Servers Devices

Username: Kevin

Description: Kevin Snow user account

Customer Name: Equipe

Group Level Access:

Password: *****

Confirm Password: *****

OK Cancel

General Policies Servers Devices

☒ User Cannot Change Password

☒ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

OK Cancel

Fig. 11d

Fig. 11e

General Policies Servers Devices

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.205

Secondary Server Port: 6503

OK Cancel

General Policies Servers Devices

Device	READ	READWRITE	Retry	Timeouts	Permissions
192.168.9.202	public	equipe	3	5	162
192.168.9.205	public	equipe	3	5	162
192.168.9.216	public	equipe	3	5	5012

Add Delete

OK Cancel

Fig. 11f

904

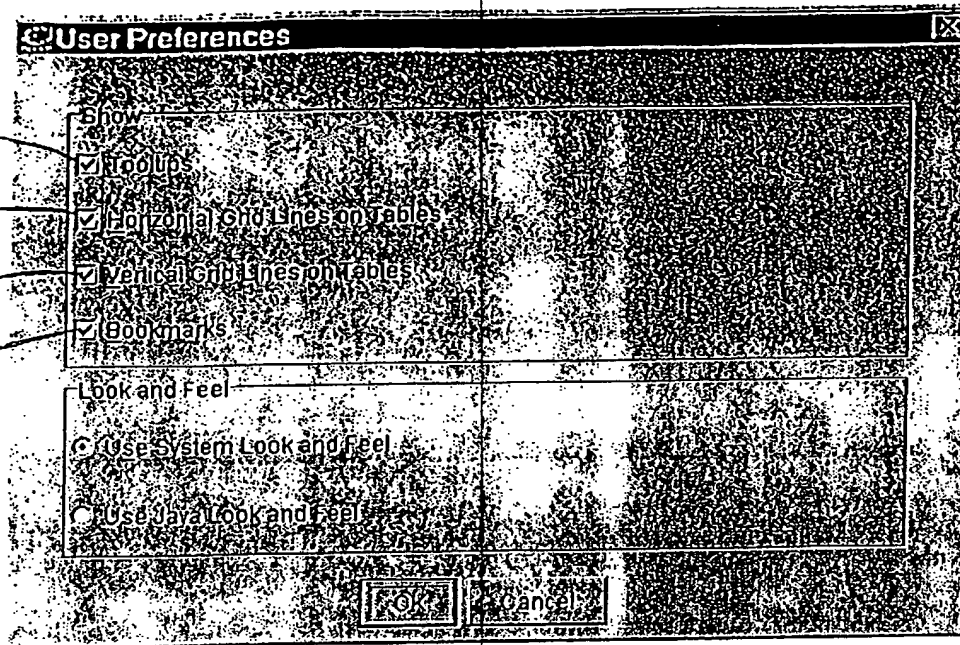
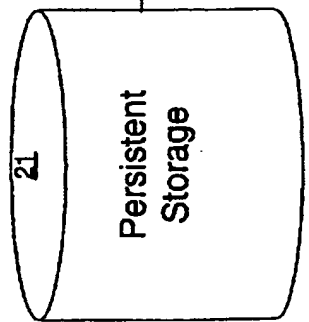


Fig. 11g

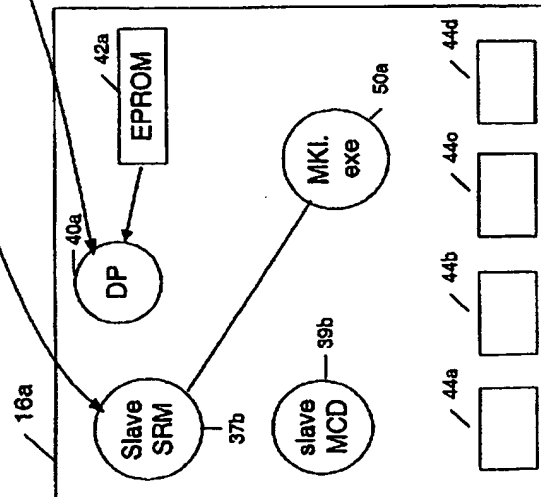
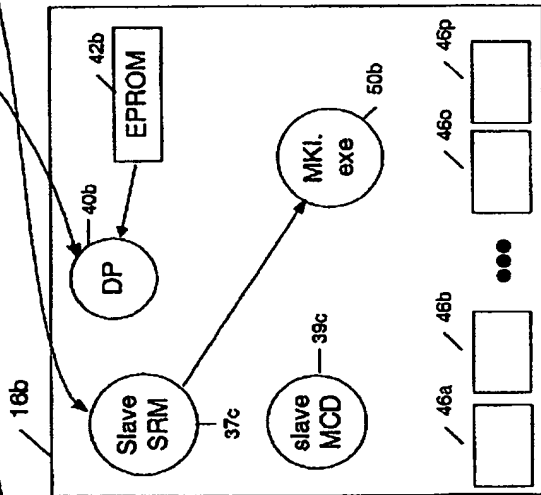
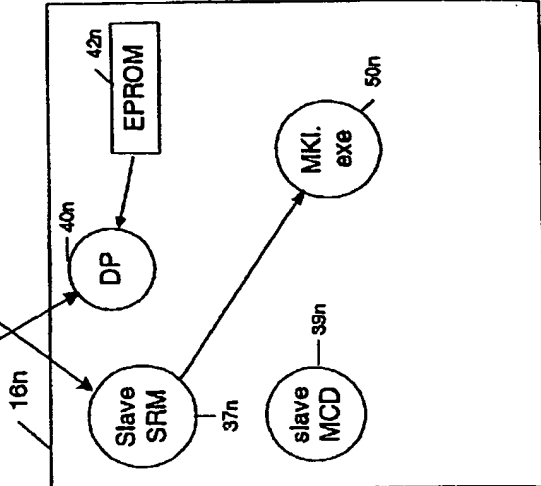
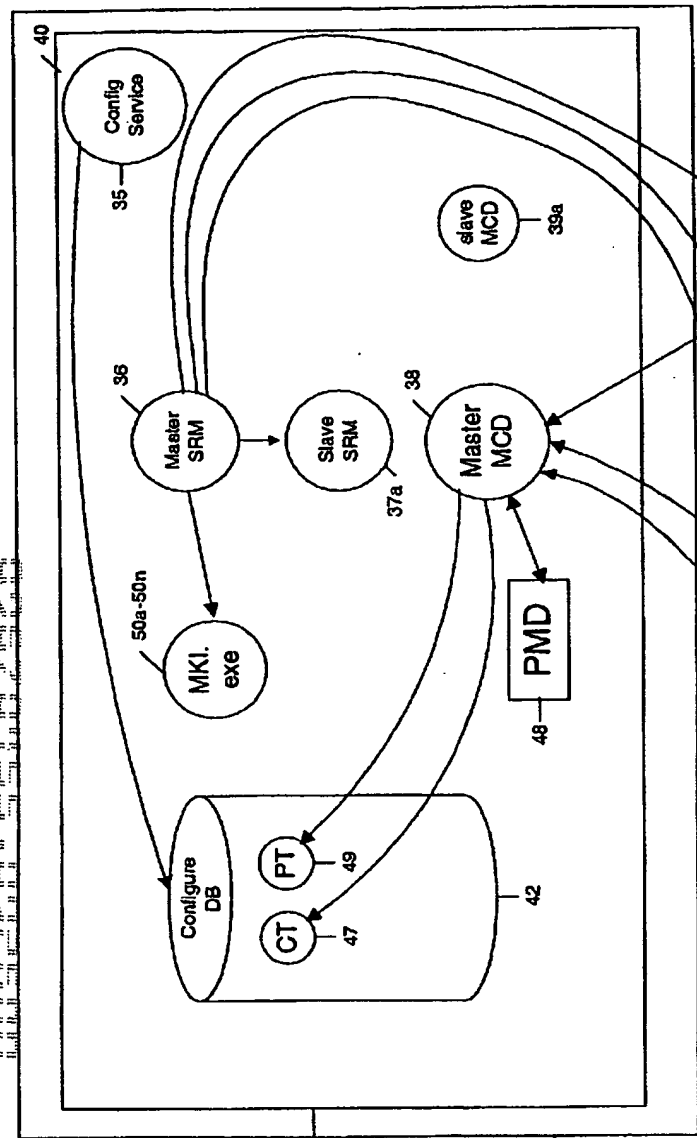
FIG. 12a

10



Persistent
Storage

12



CARD TABLE

47

PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16 a — 500	0XF002	3	1	
16 b — 501	0XF002	4	2	
...
16 e — 505	0X6002	1	5	
...
16 n — 513	0XF002	1	12	
...

FIG. 12b

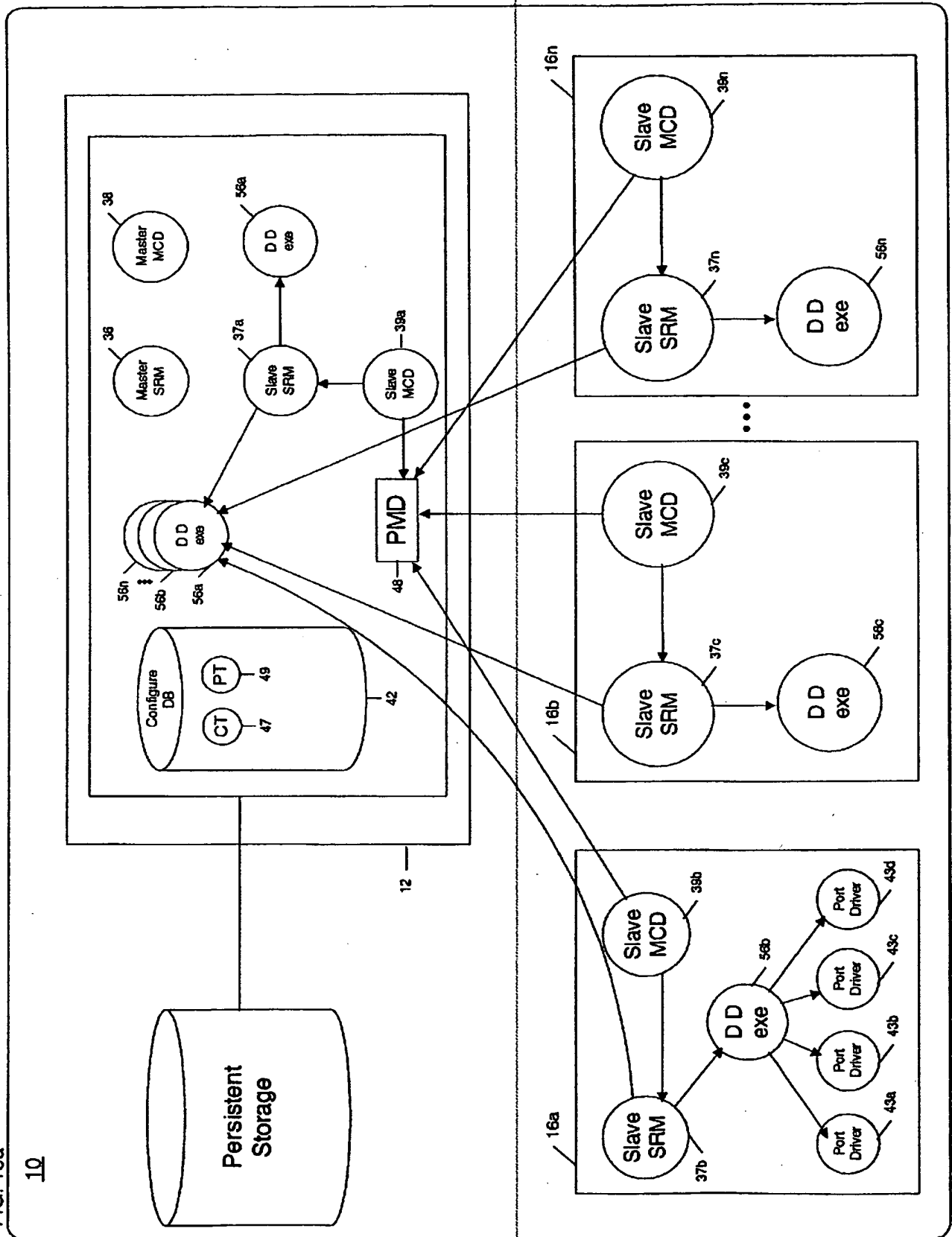
PORT TABLE

49

PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a — 1500	00620	1	1	
44b — 1501	00620	1	1	
44c — 1502	00620	1	1	
44d — 1503	00620	1	1	
44a — 1504	00820			
46a — :	:	:	:	:
1600	00620	1	8	
:	:	:	:	:

FIG. 12c

10



10

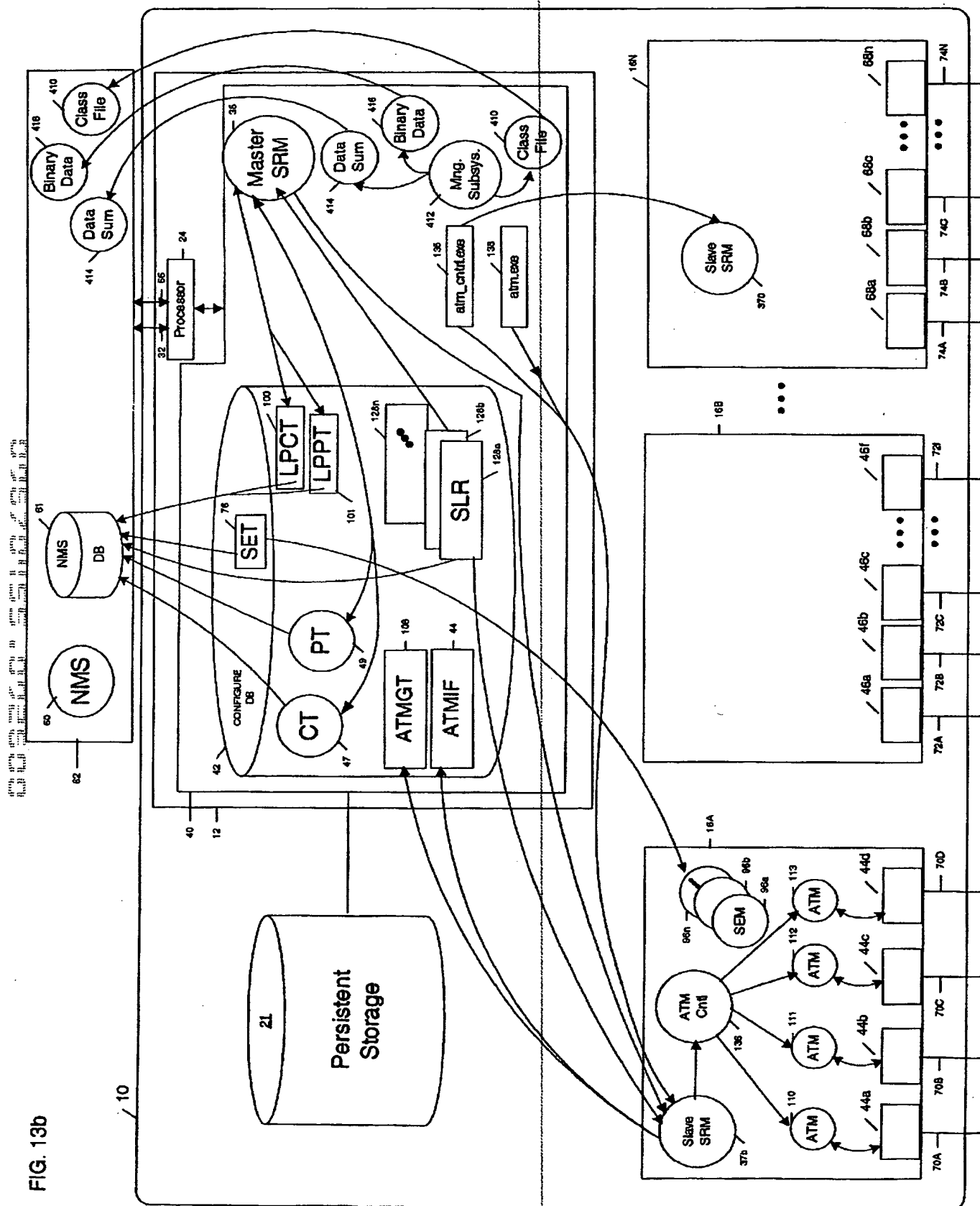


Fig. 13c

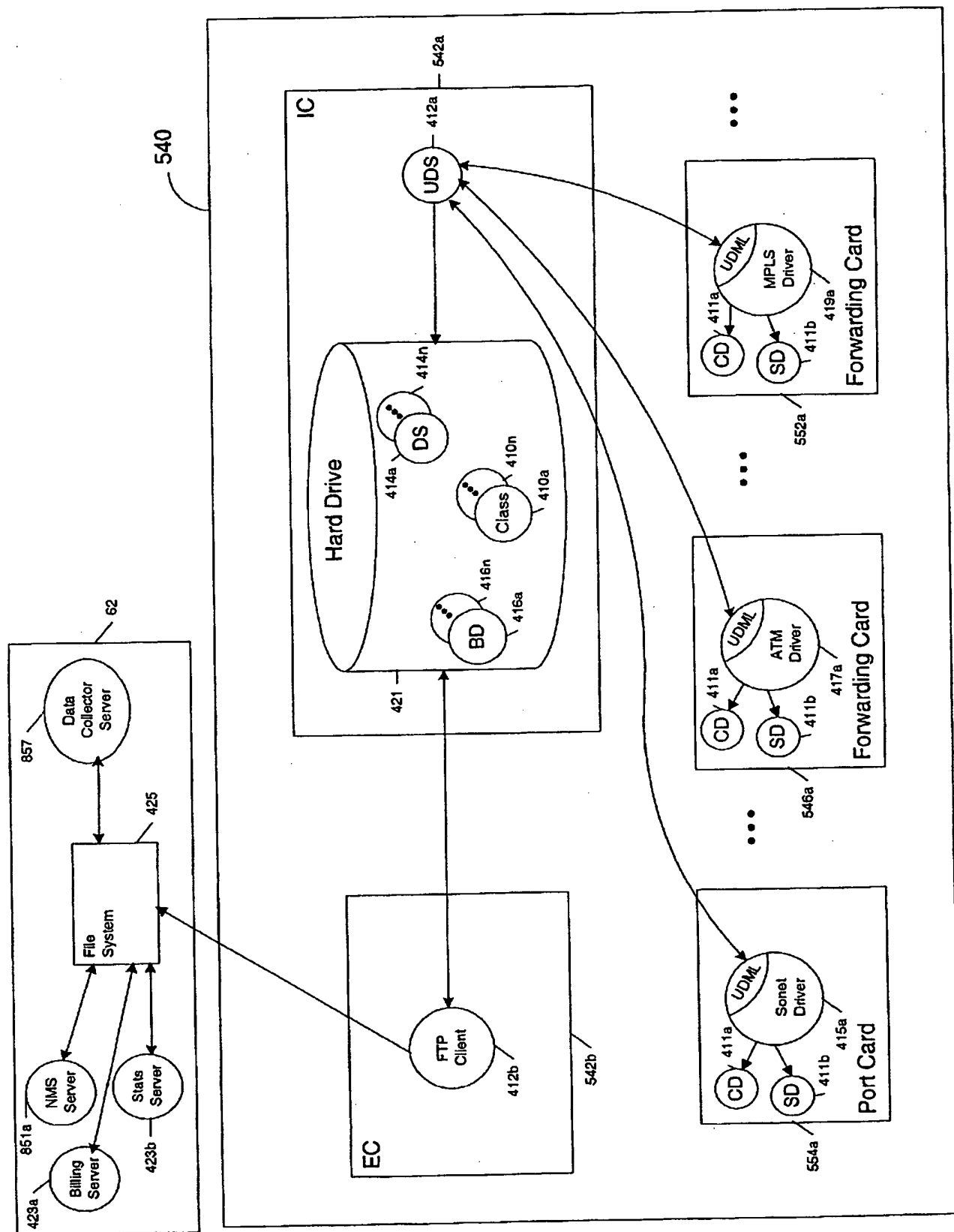


FIG. 13d is a block diagram of a system architecture for a network management system.

Fig. 13d

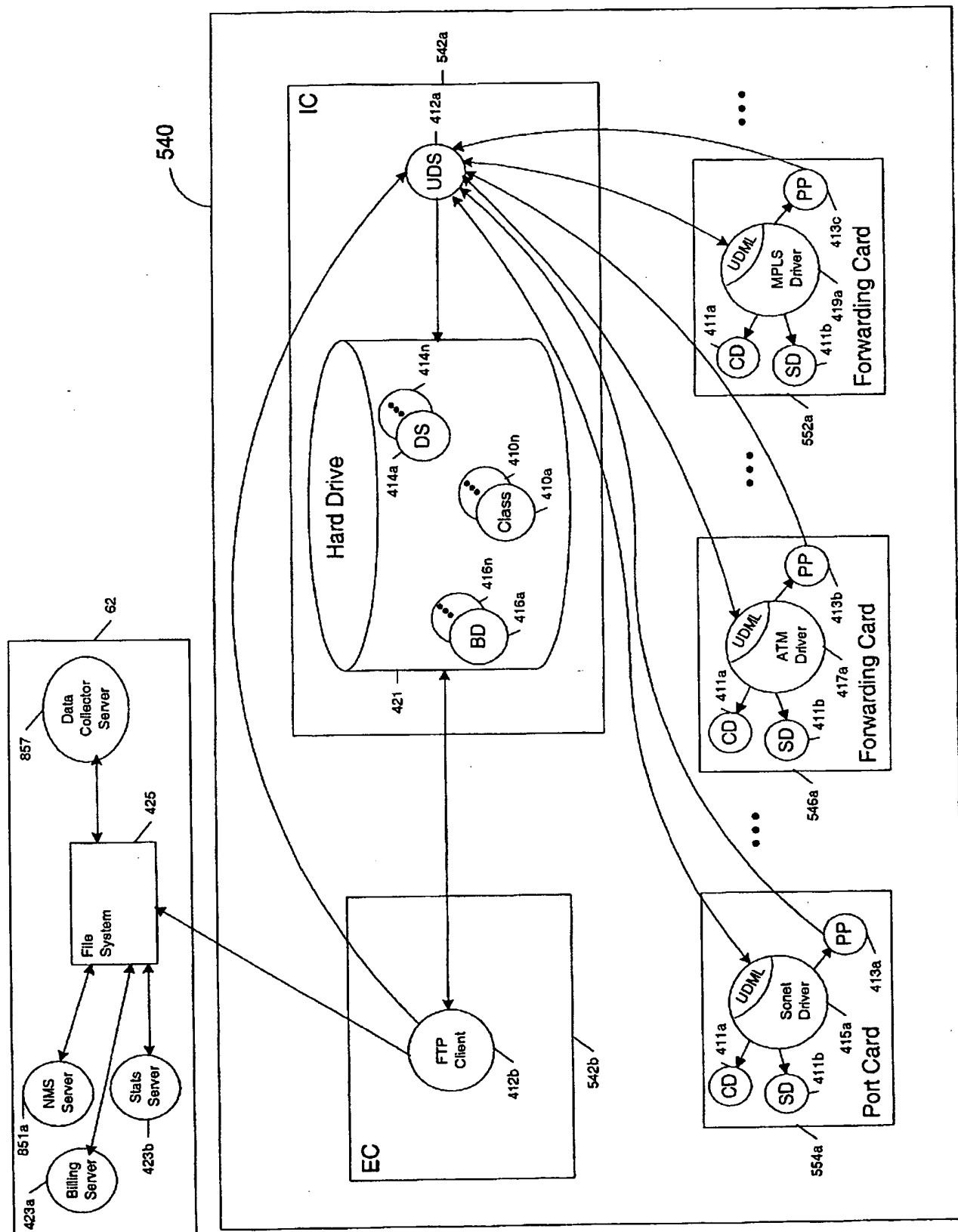


FIG. 14a

Service Endpoint Table 76

	Service Endpoint #	Port PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 14b

Logical to Physical Card Table 100

	LID	Primary PID	Back-up PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 14c

Logical to Physical Port Table 101

	LID	Primary PID	Back-up PID
107	40	1500	1600
	⋮	⋮	⋮

FIG. 14d

ATM Group Table 108

Group #	Card LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14e

ATM Interface Table 114

ATM IF	ATM Group	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮

FIG. 14f

Software Load Record 128a

130	Control Shim	LID	132
134	atm-cntl.exe	30	

FIG. 15

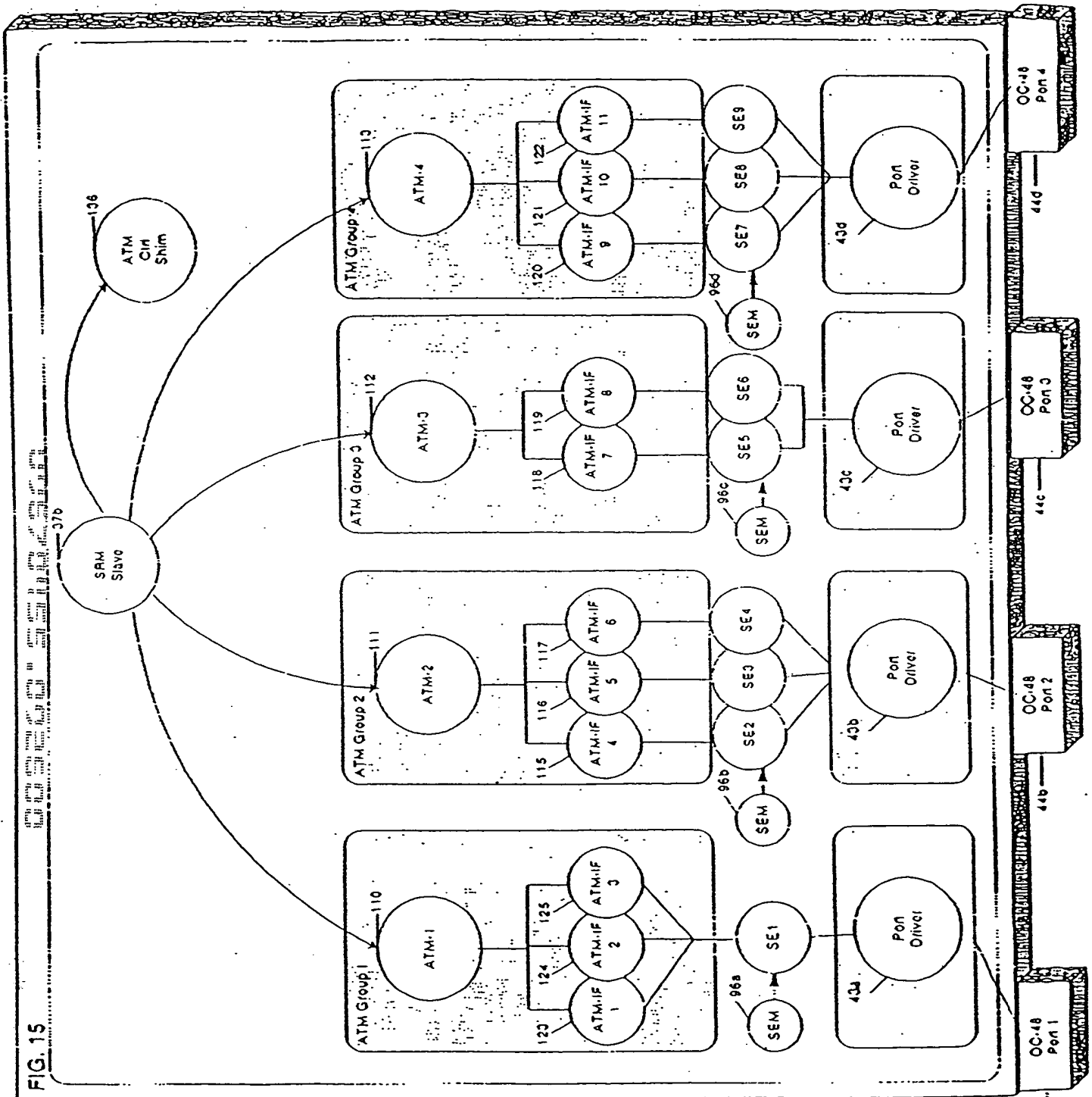


FIG. 16a

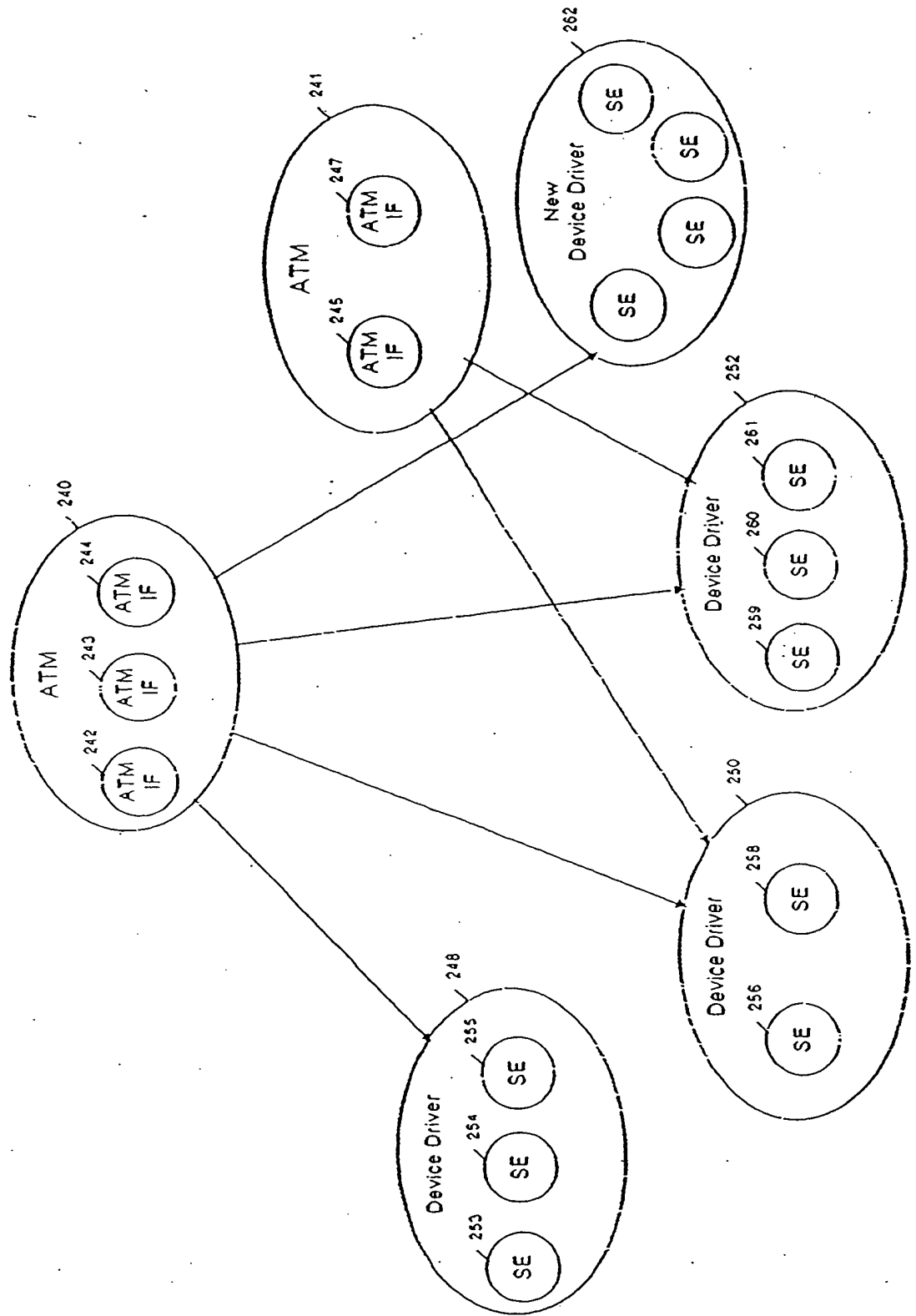
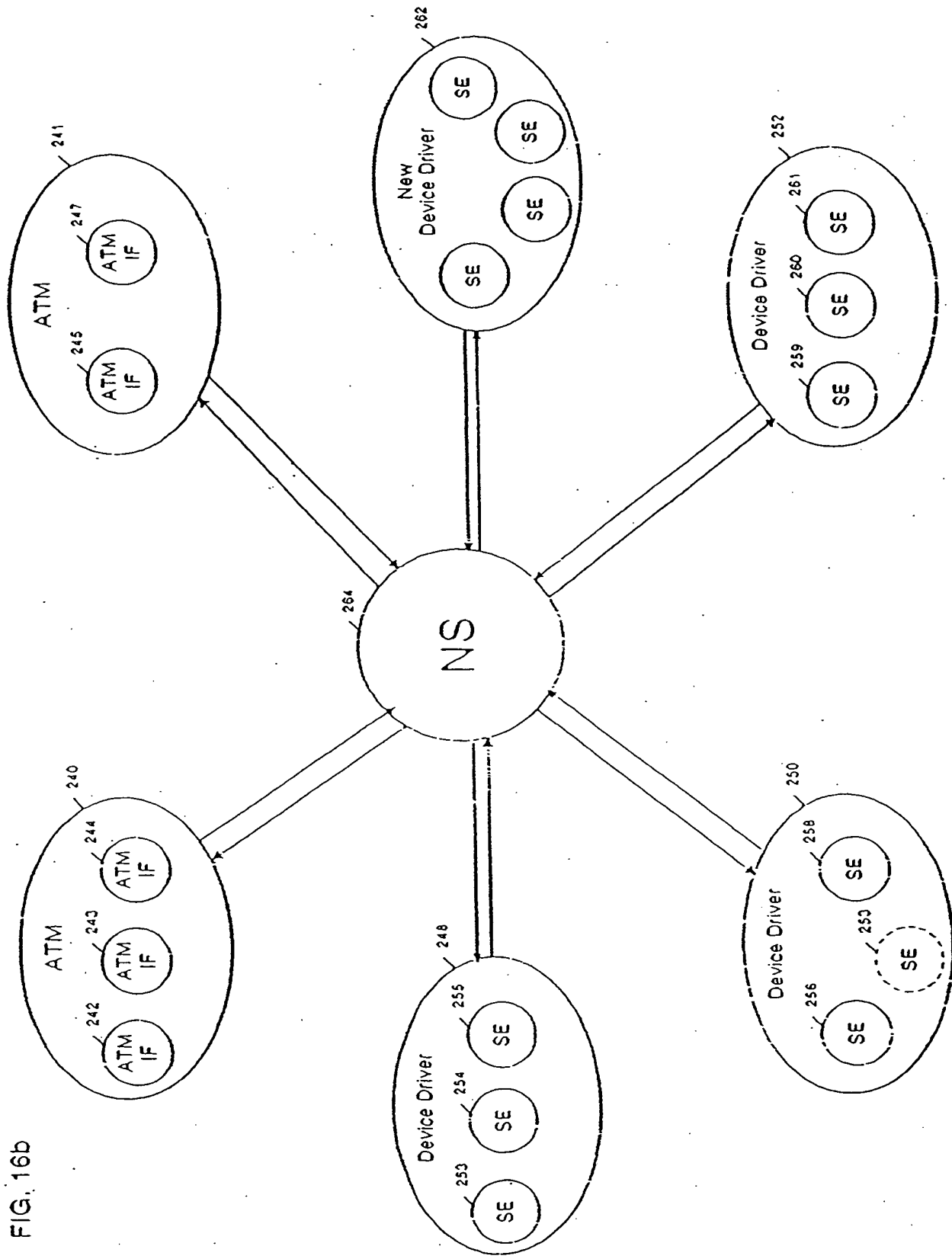
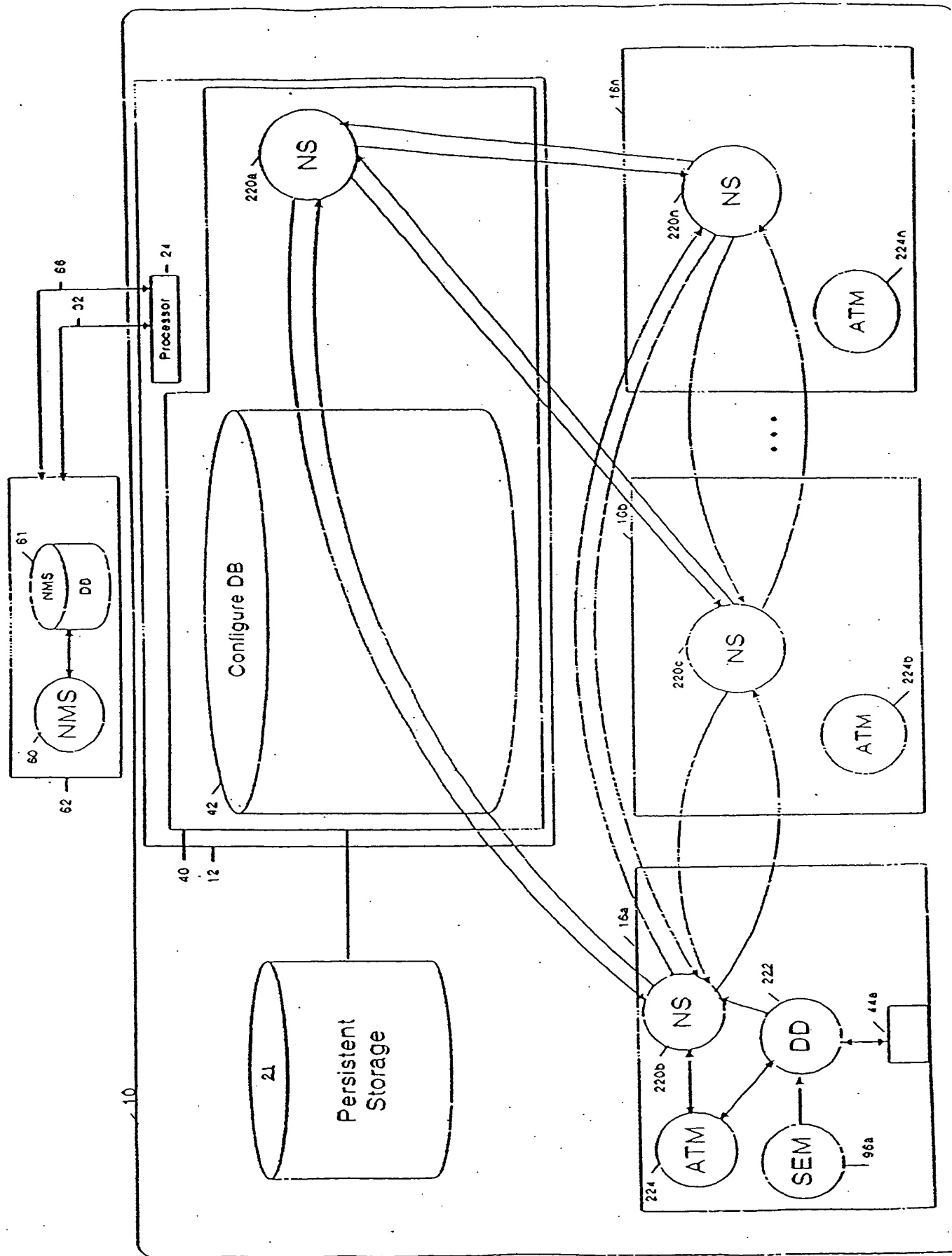


FIG. 16b



[illegible]

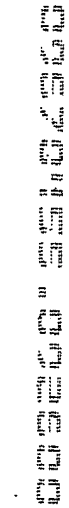
[illegible]

FIG. 17

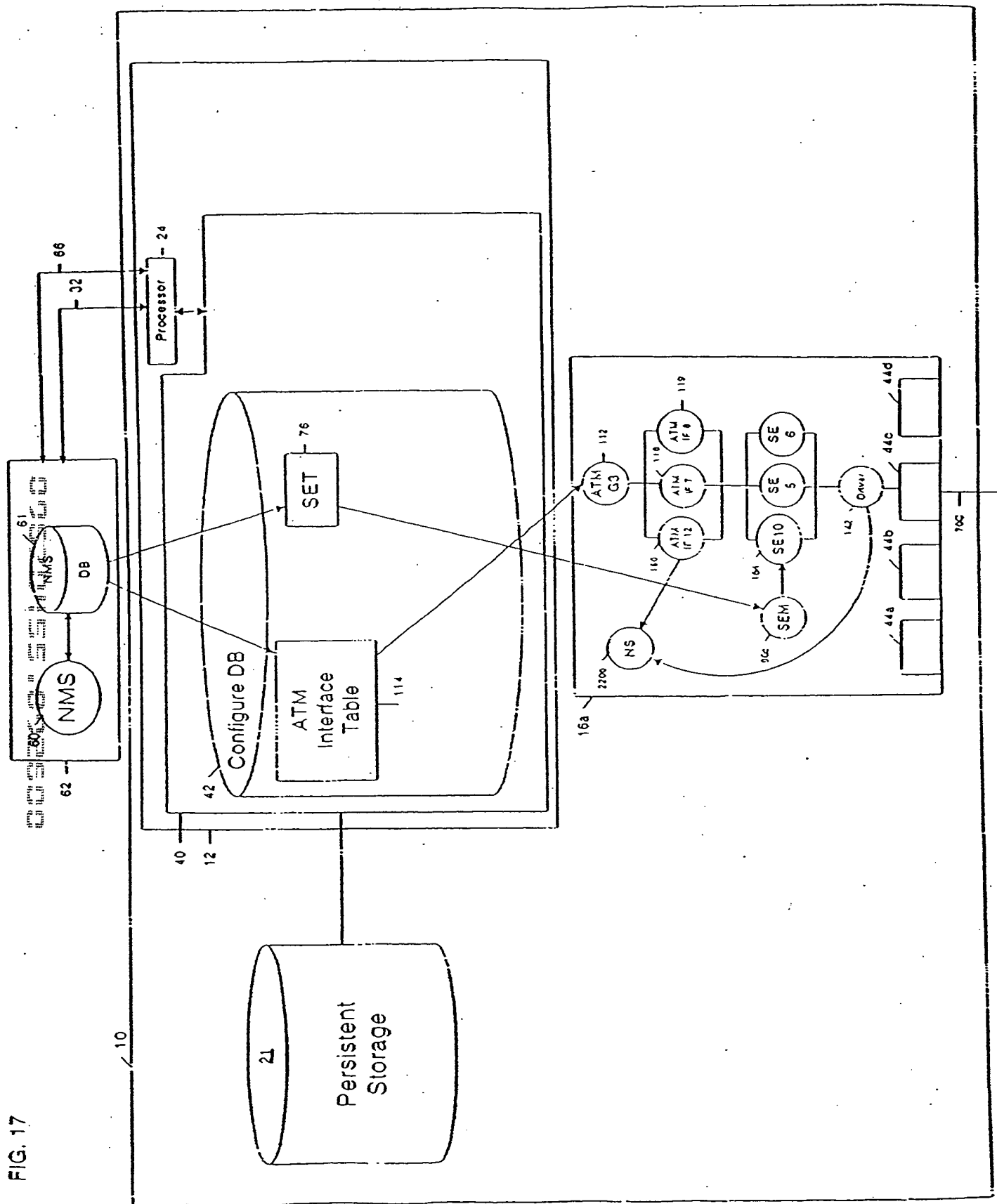


FIG. 18

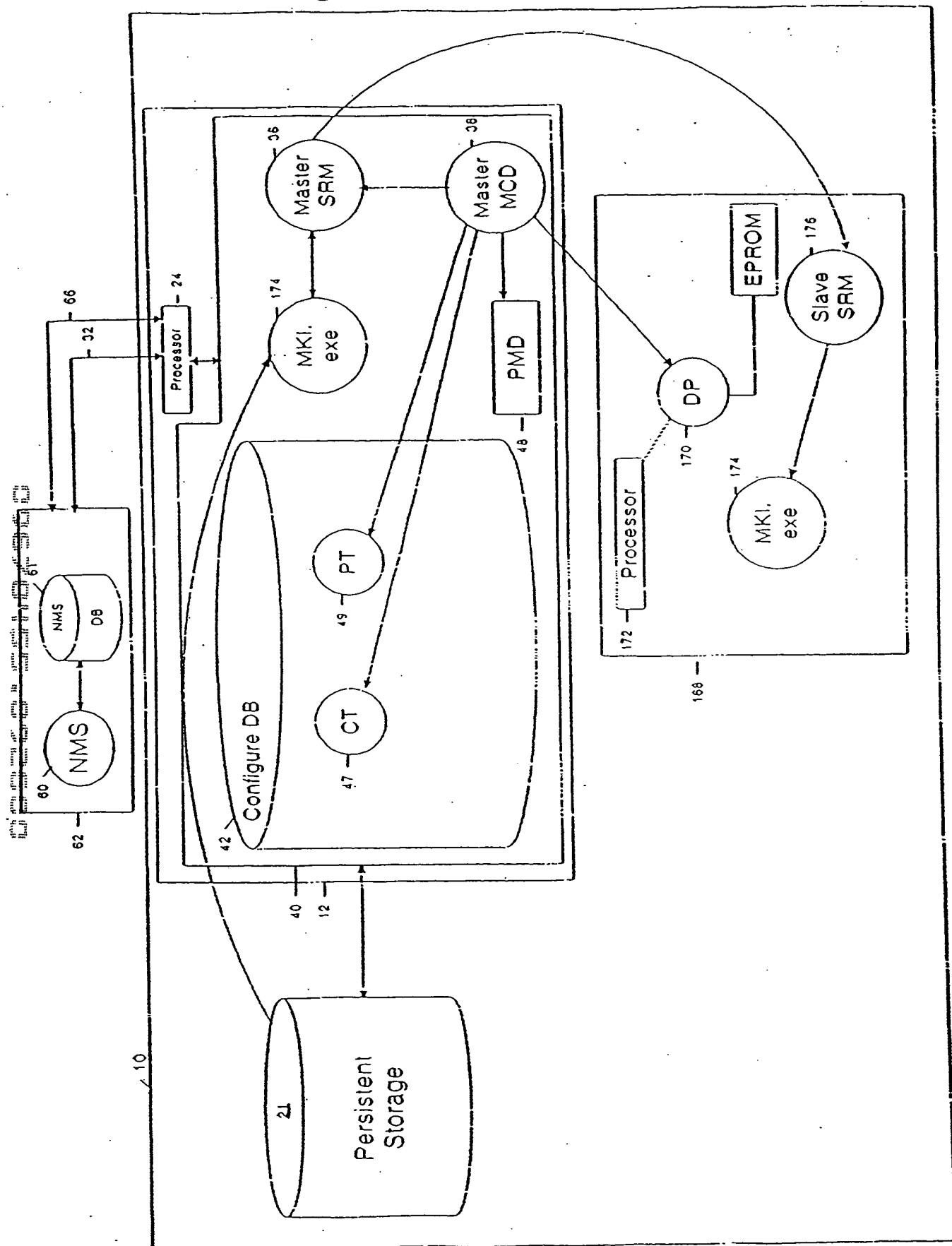
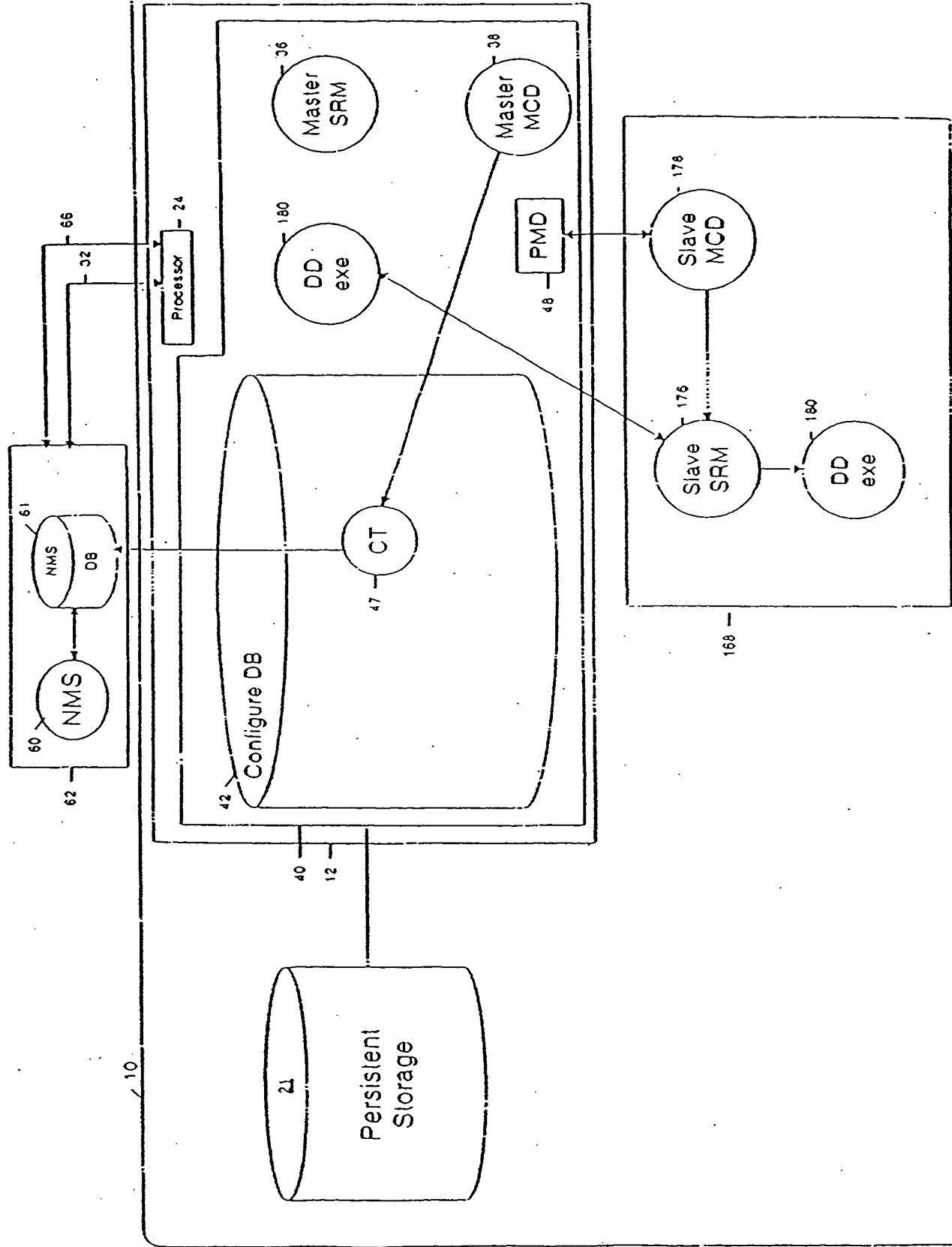


FIG. 19

FIG. 19 is a block diagram of a system architecture. The system includes a Persistent Storage unit (21) connected to a Processor (24) via a bus (12). The Processor (24) is connected to a Network Management System (NMS) (60) and a Database (DB) (61) via a bus (32). The NMS (60) is connected to a Master MCD (38) and a Slave MCD (178) via a bus (40). The Master MCD (38) is connected to a Master SRM (36) and a DD exe (180) via a bus (48). The Slave MCD (178) is connected to a Slave SRM (176) and a DD exe (180) via a bus (180). The Master MCD (38) is also connected to a CT (47) via a bus (48). The CT (47) is connected to the Config DB (42) via a bus (40). The Config DB (42) is connected to the Processor (24) via a bus (12).



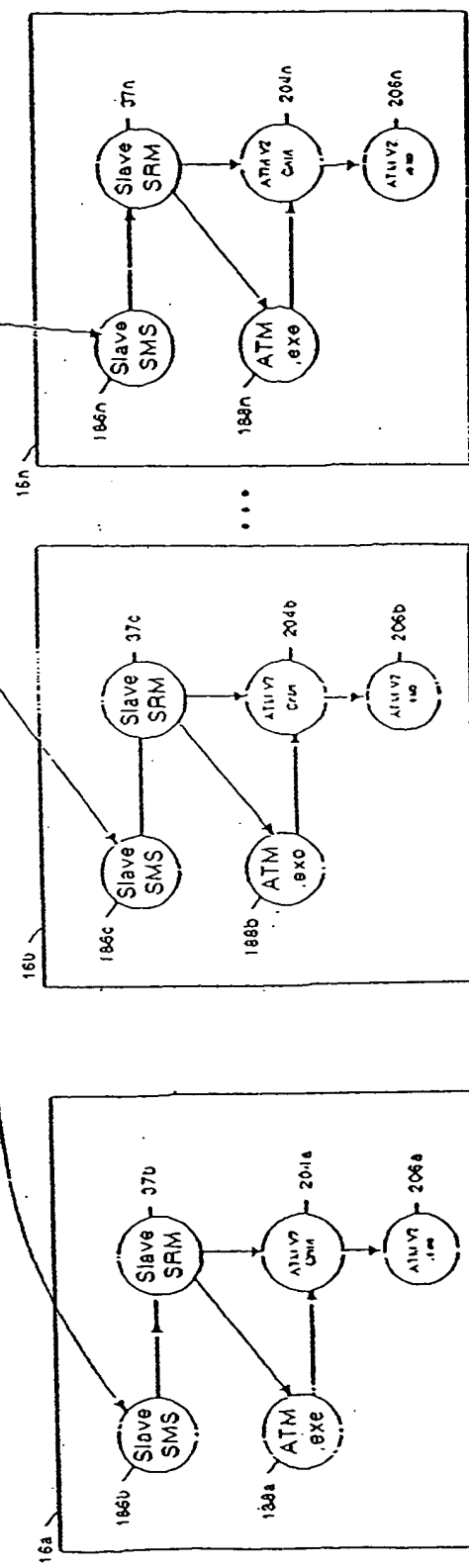
[illegible]

FIG. 21

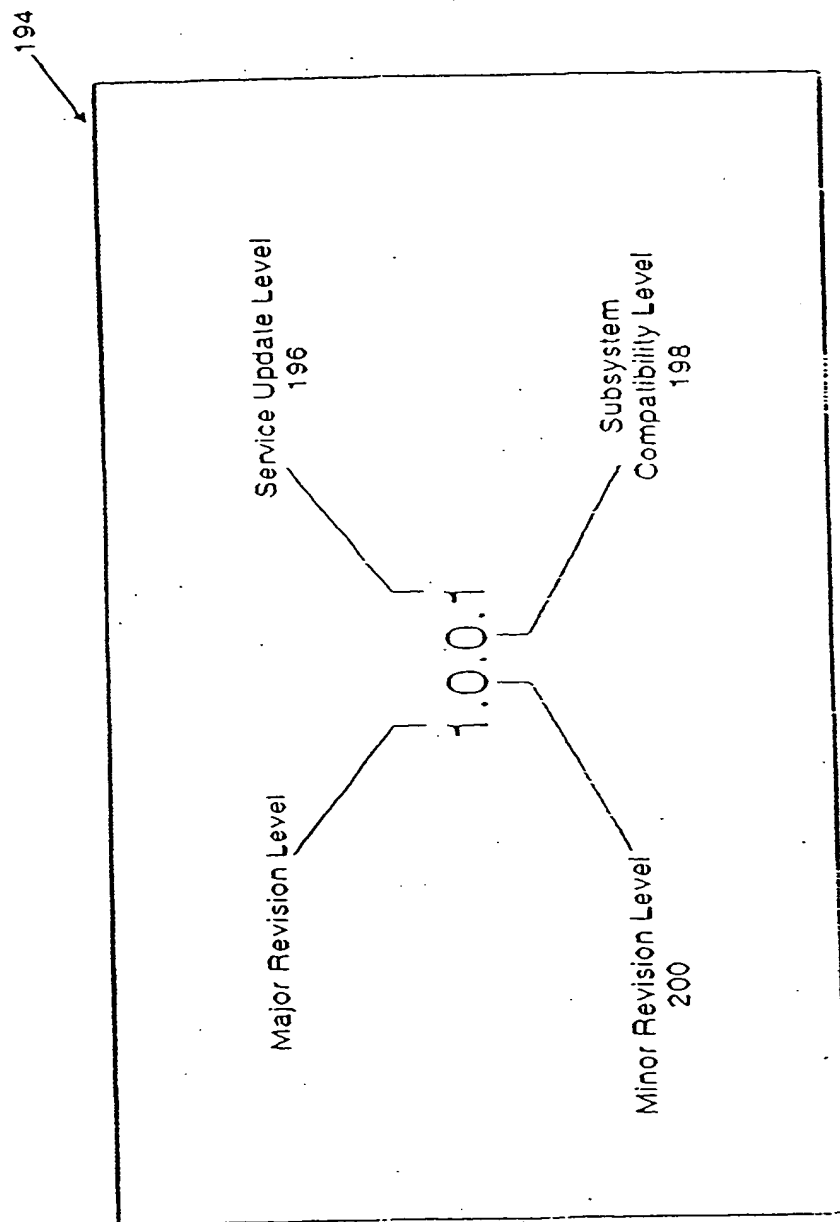


FIG. 22

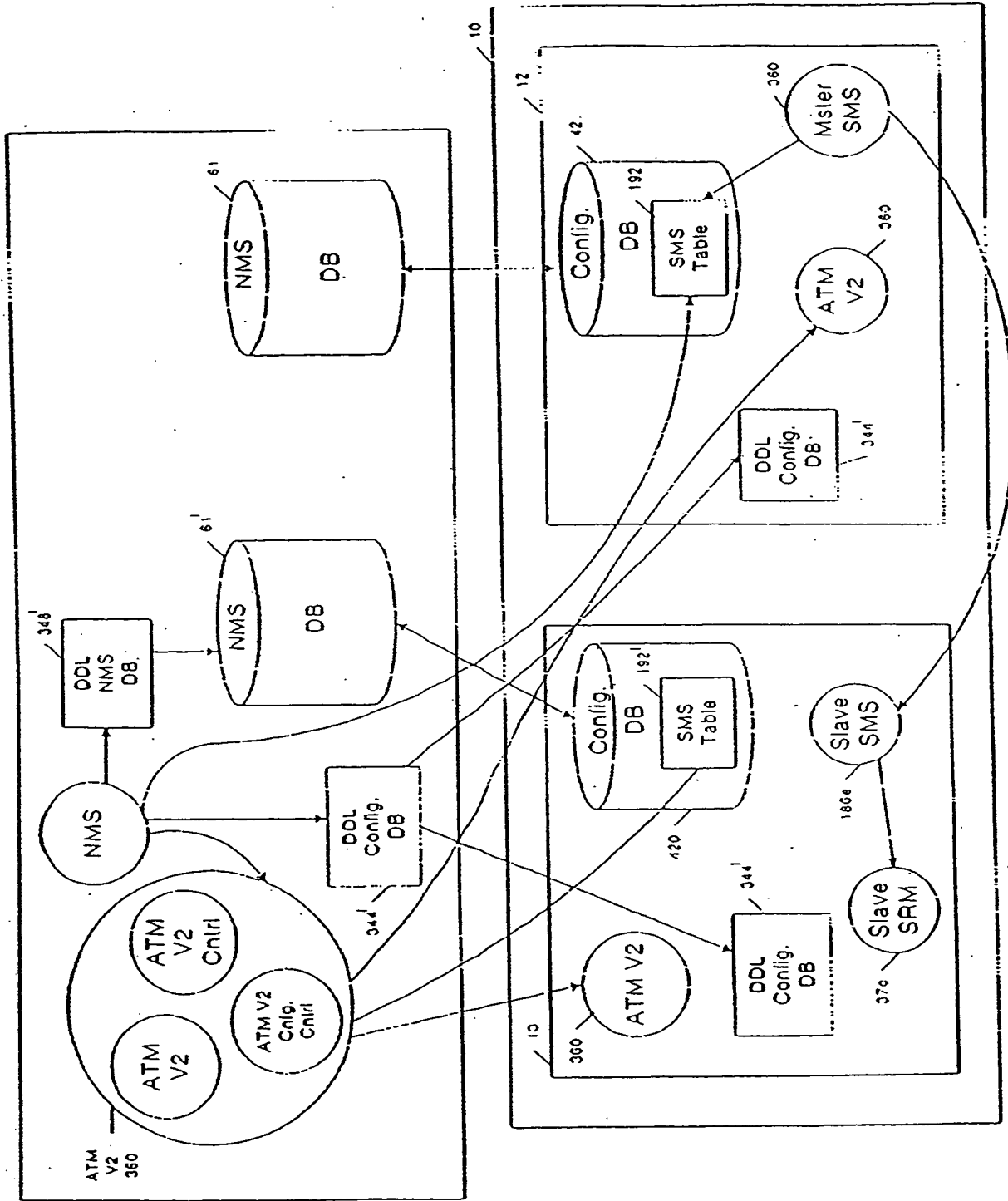


FIG. 23

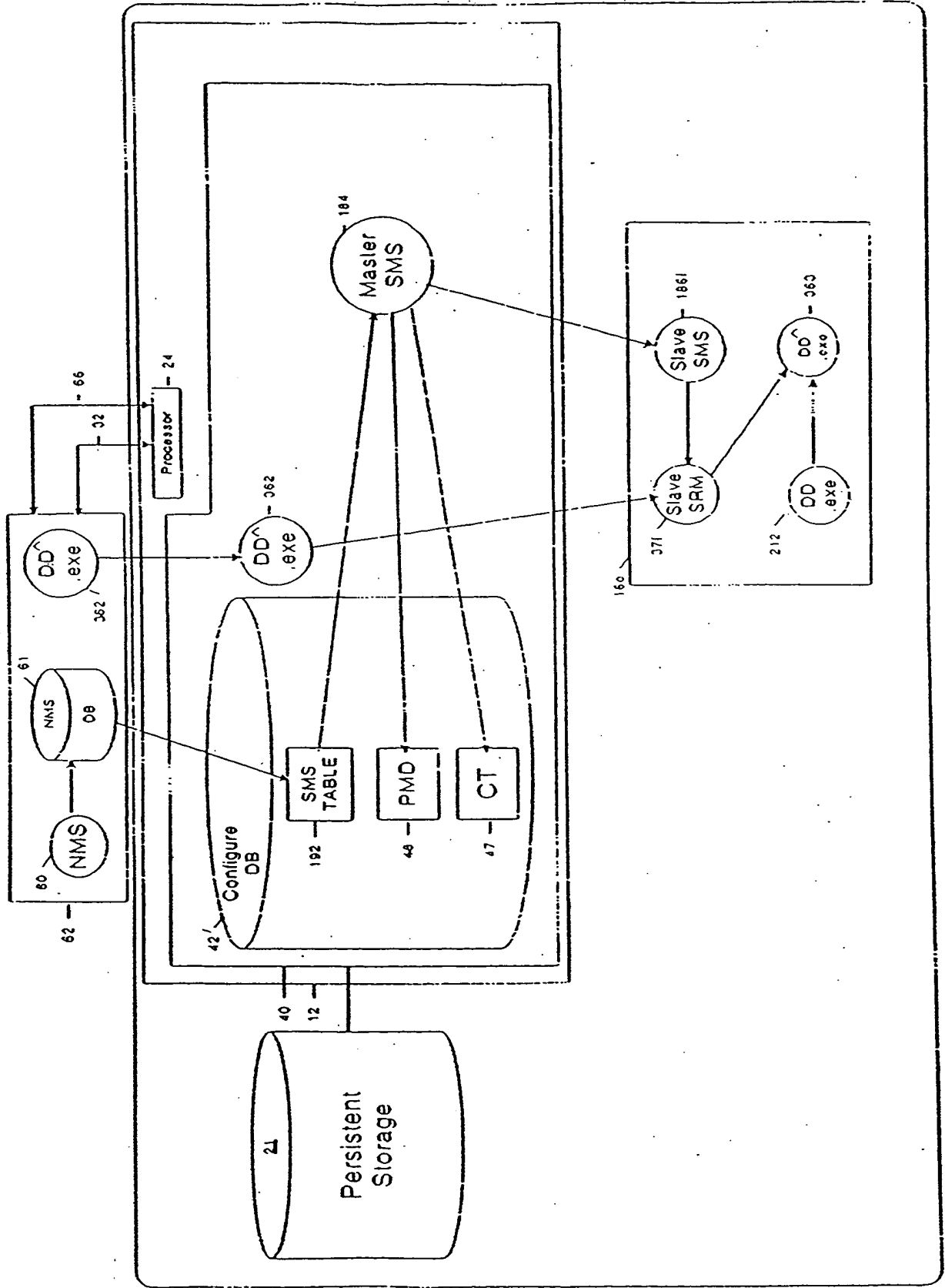


FIG. 24

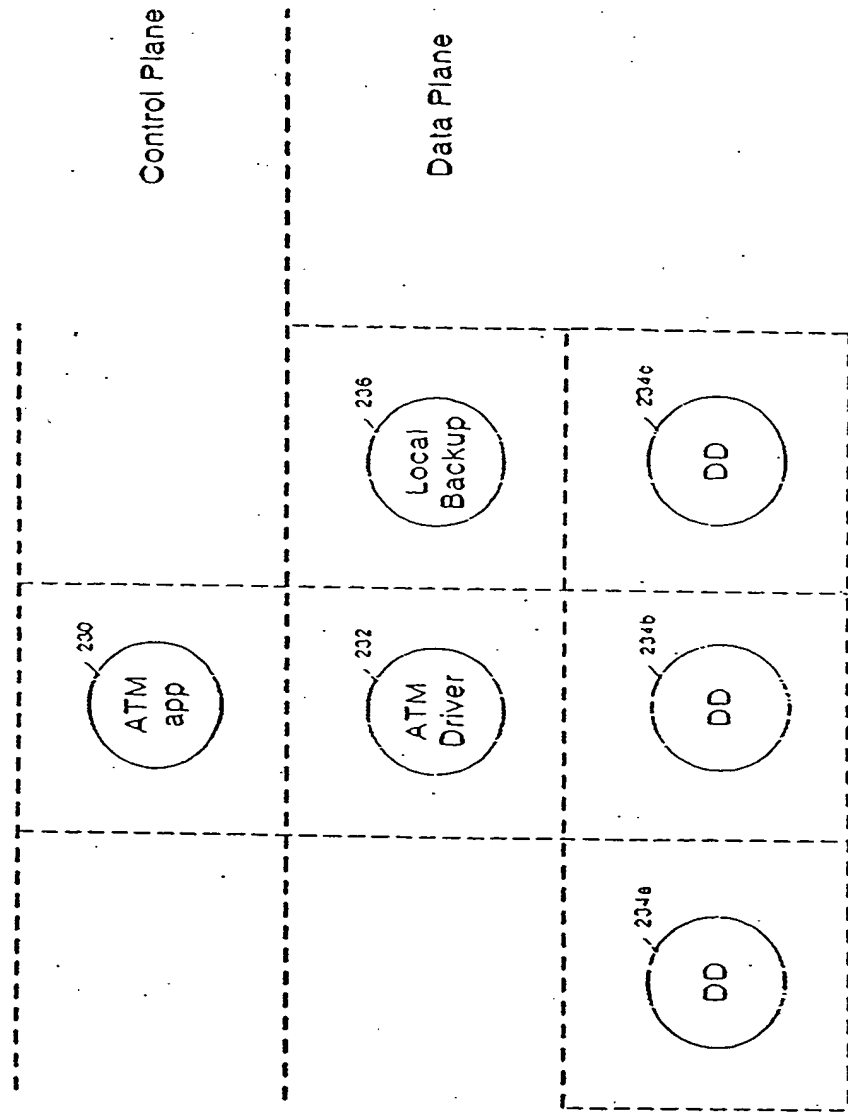


FIG. 25

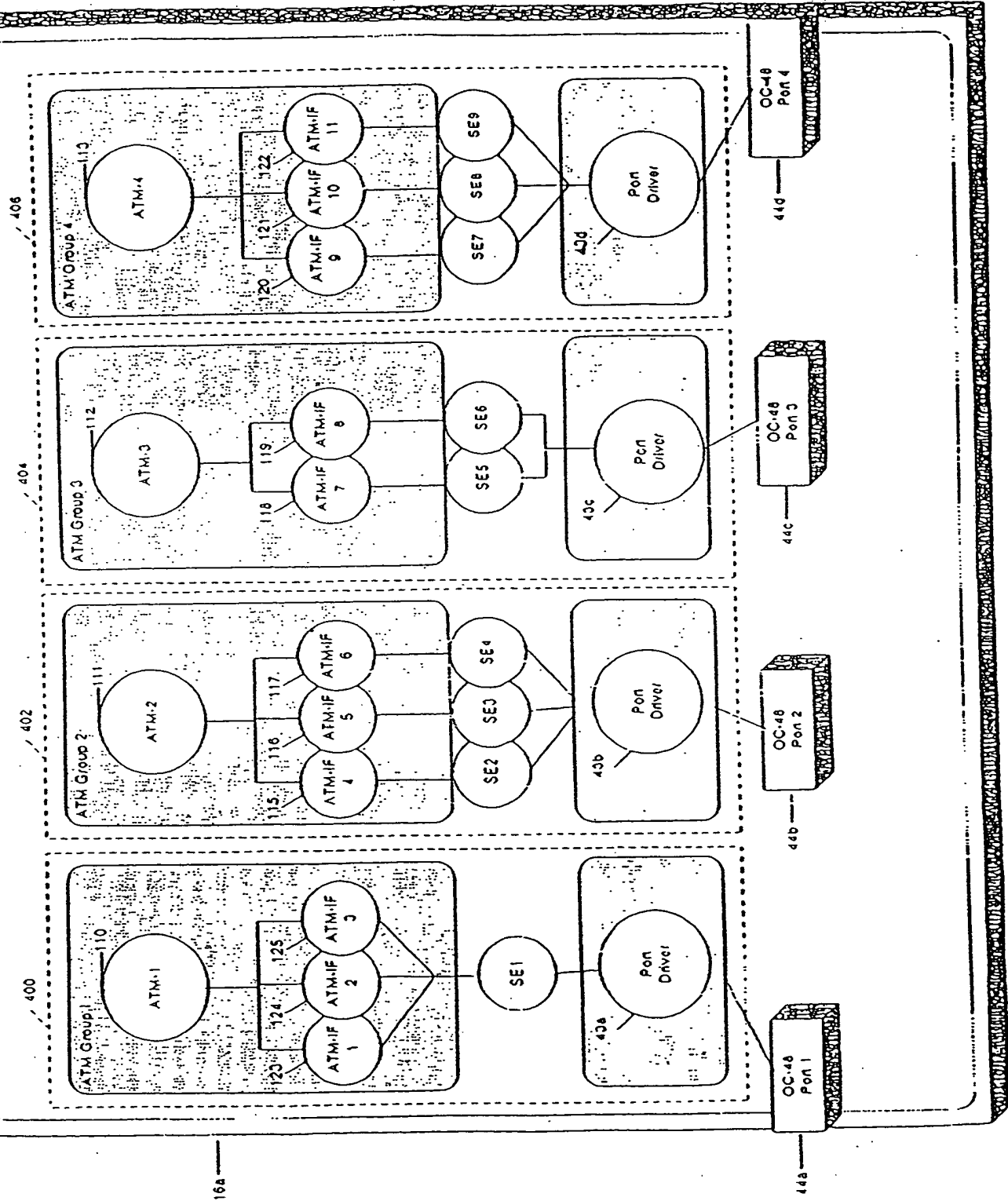


FIG. 26

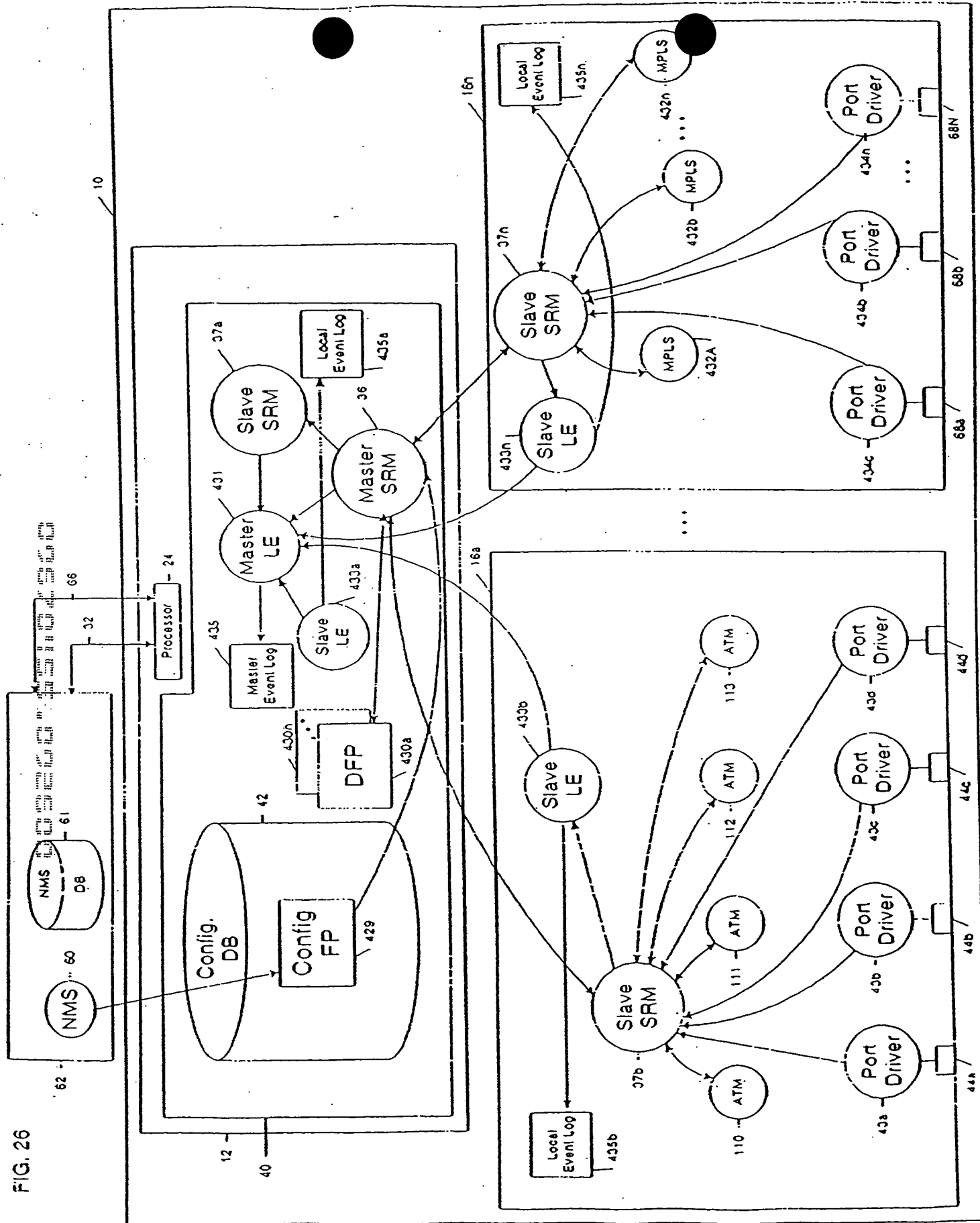


FIG. 27

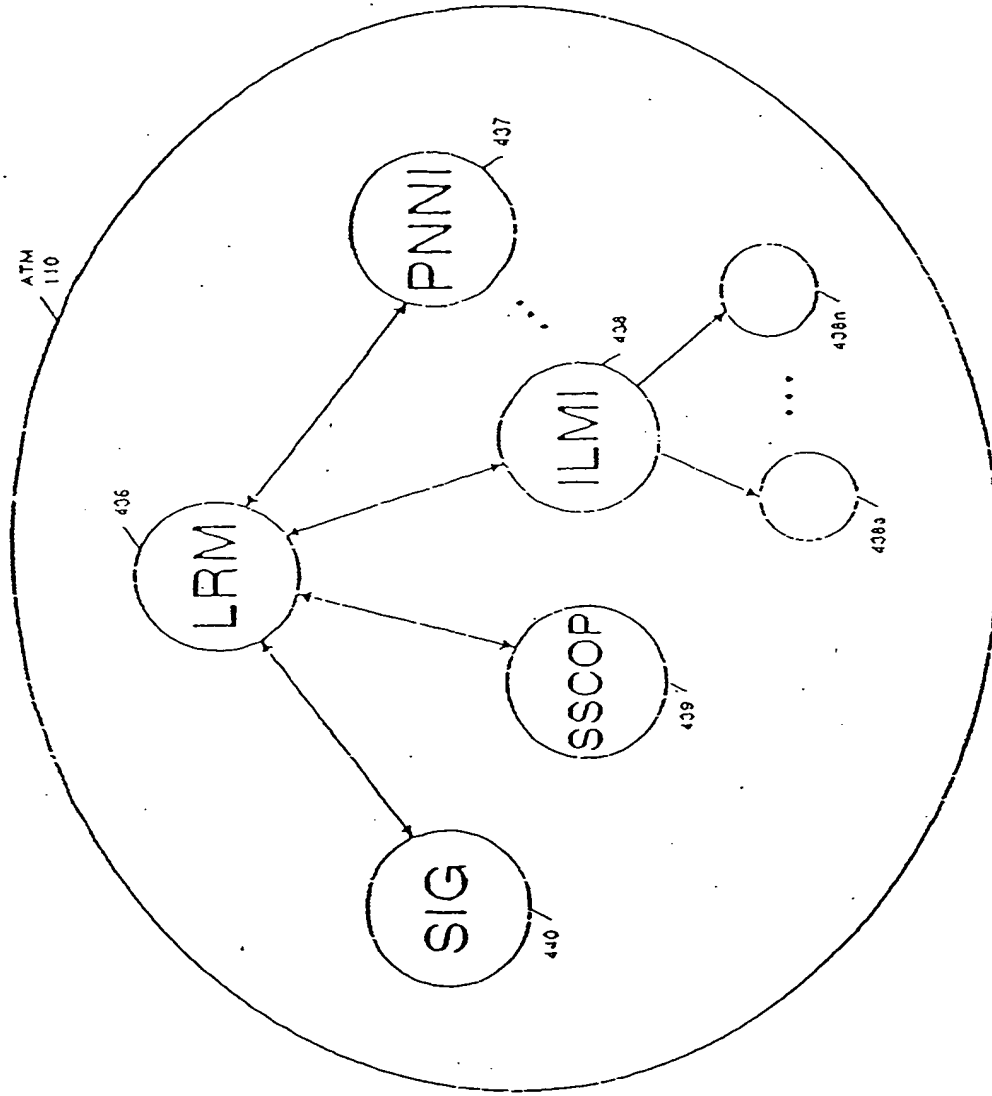


FIG. 28

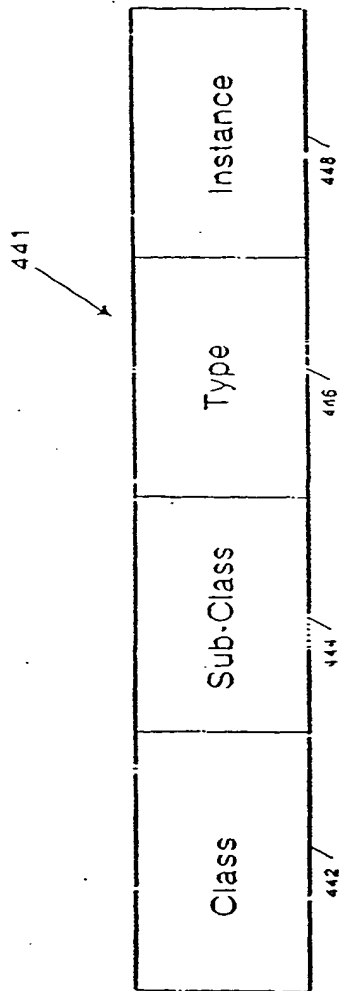


FIG. 29

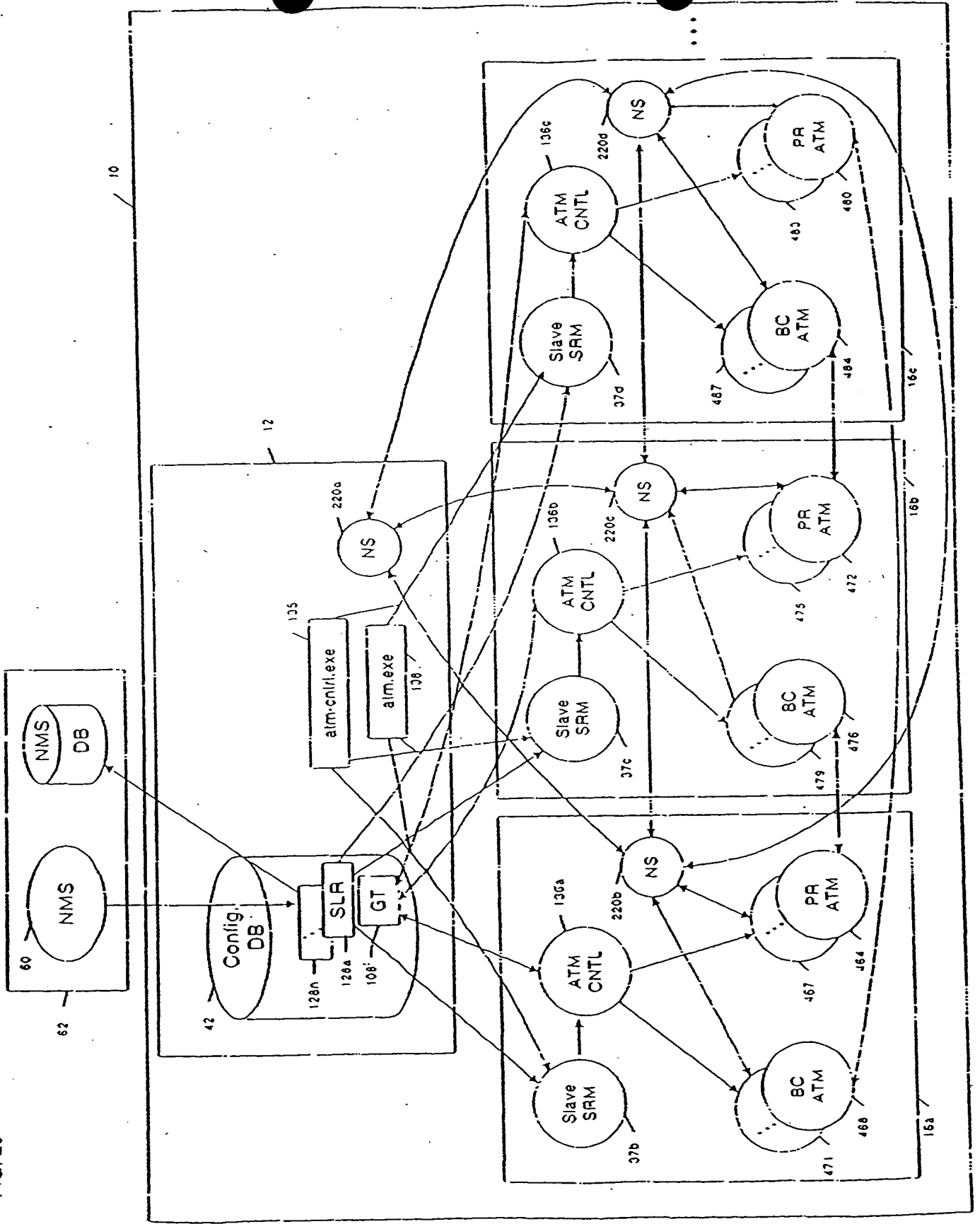


FIG.30

Group Table 108'

	Group #	Primary Card LID	Backup Card LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	⋮	⋮	⋮	⋮

Fig. 31a

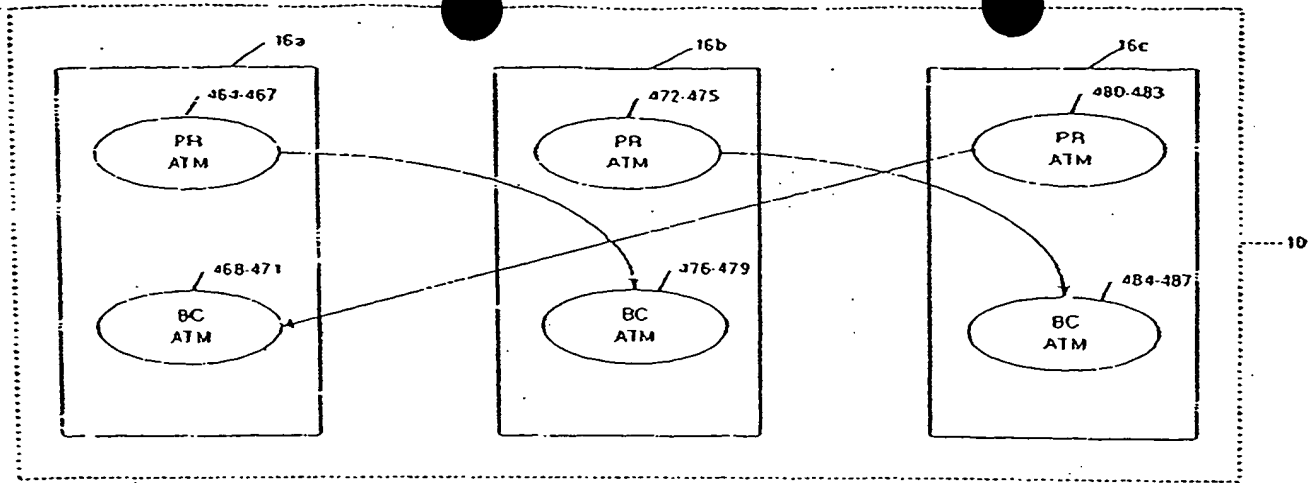


Fig. 31b

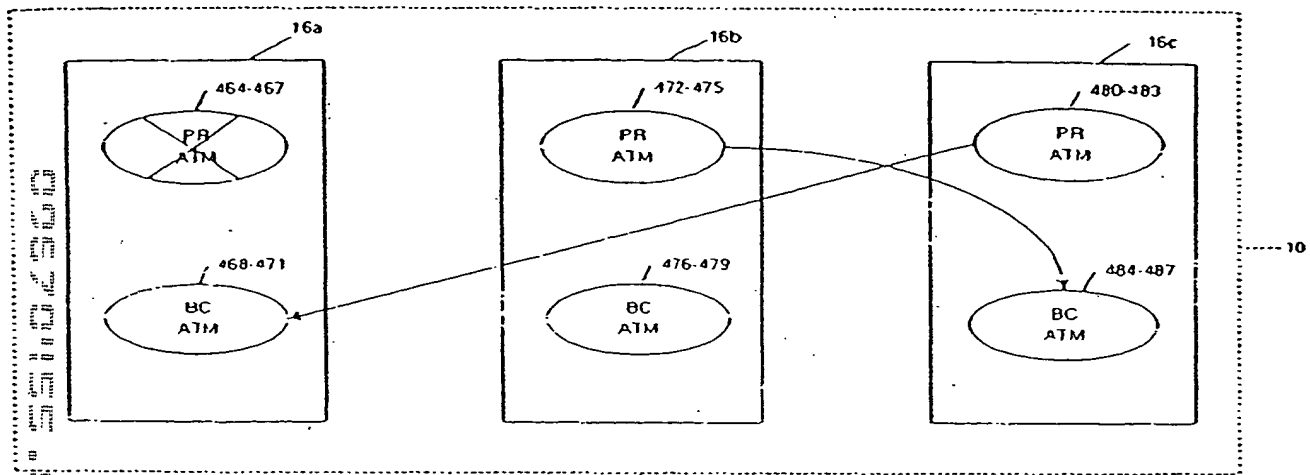


Fig. 31c

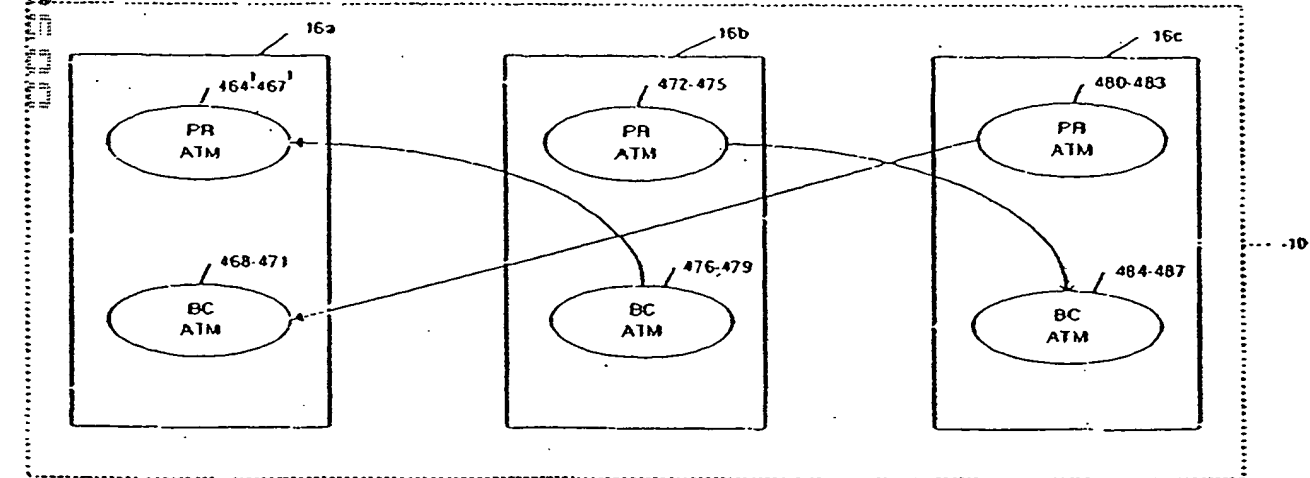


Fig. 32a

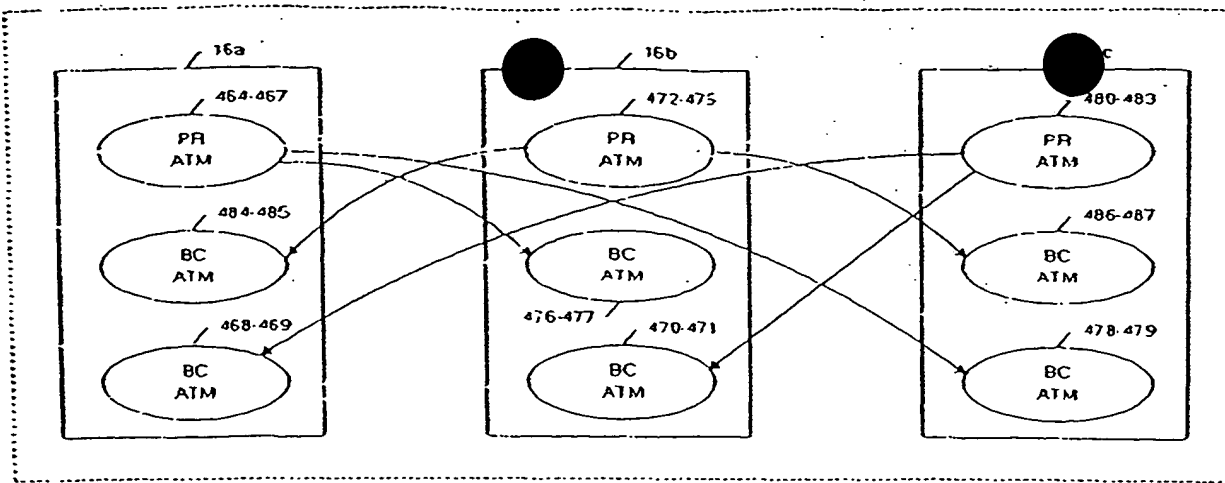


Fig. 32b

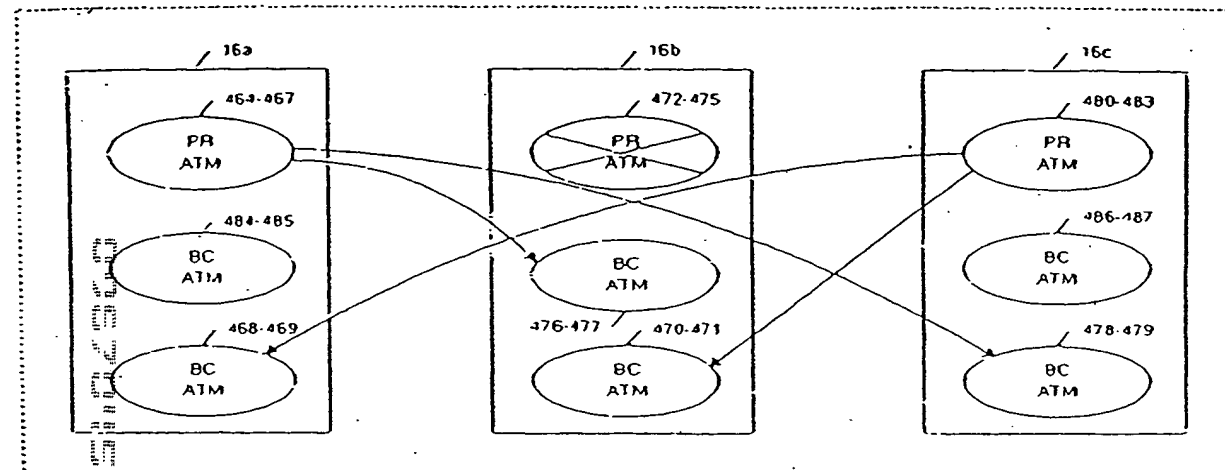


Fig. 32c

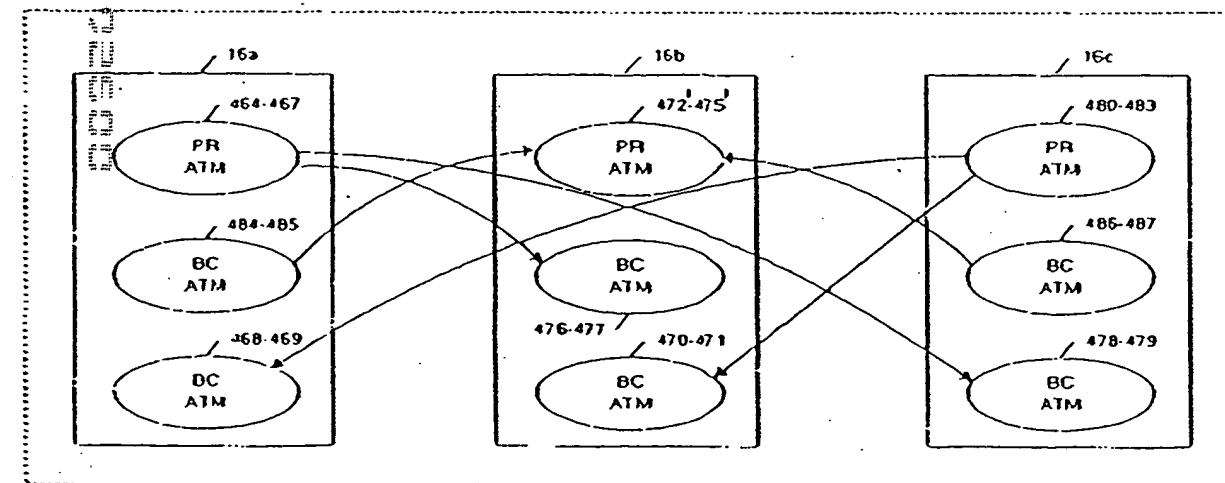


FIG. 33a

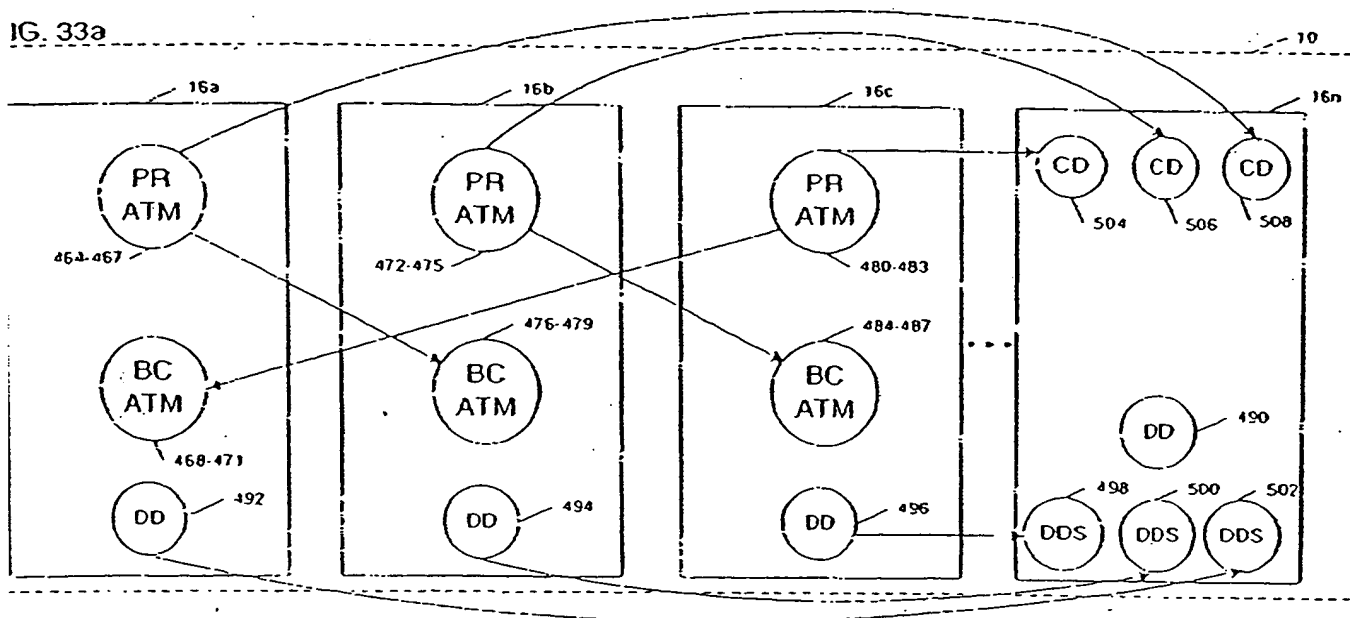
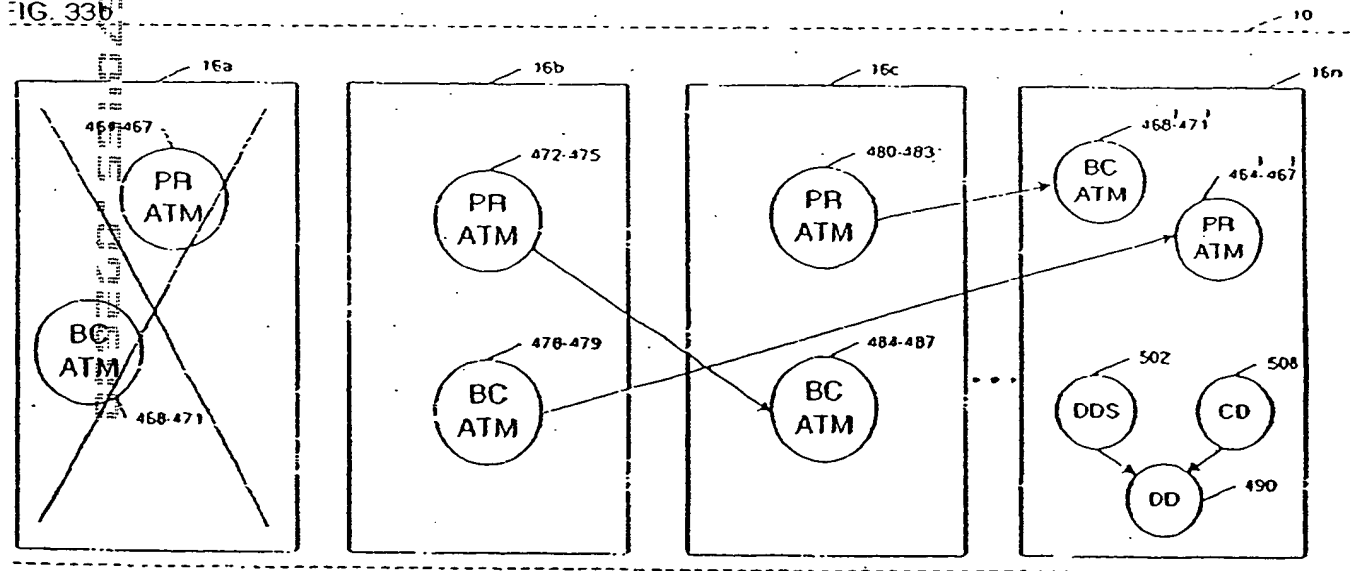
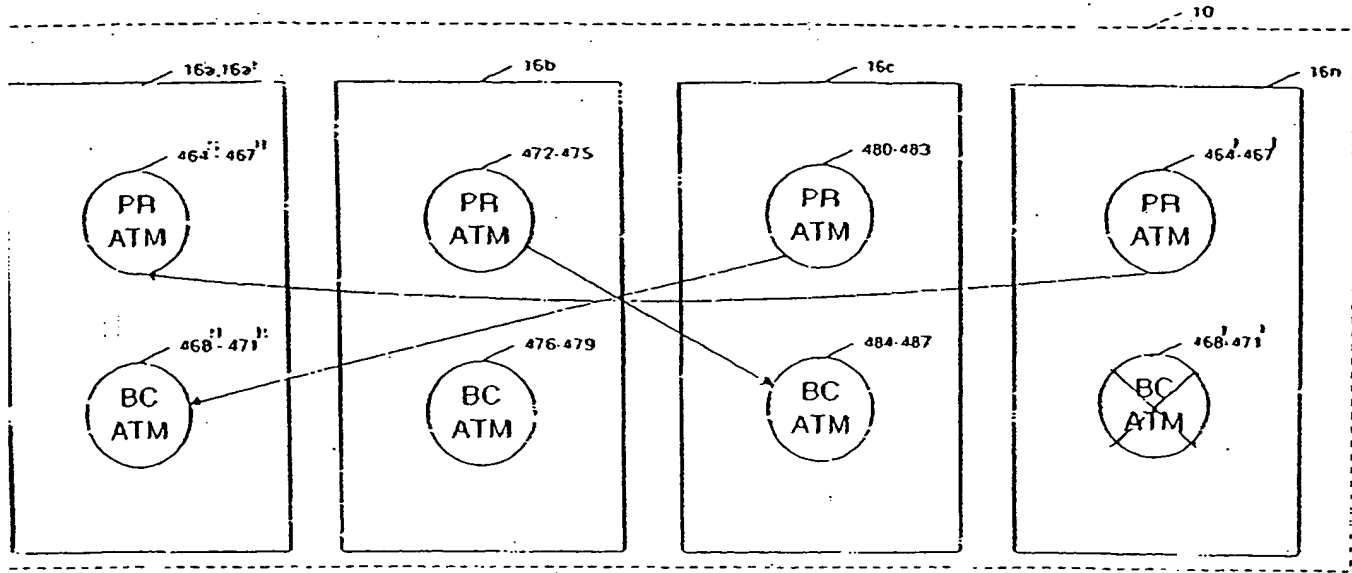


FIG. 33b



3. 33c



3. 33d

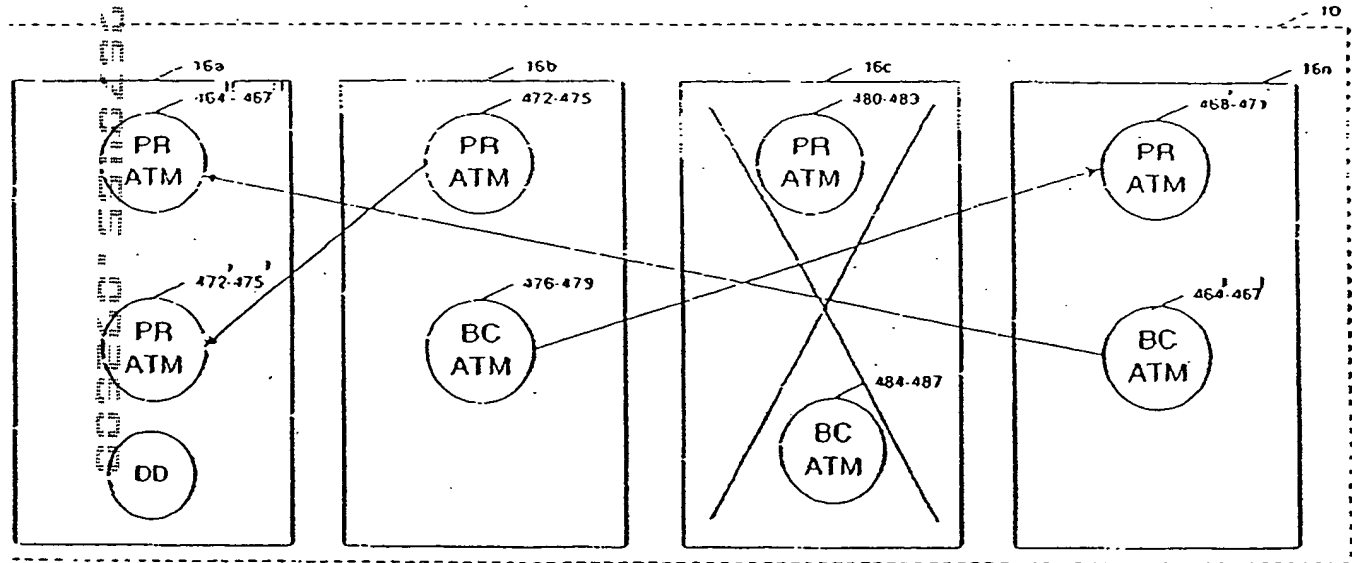


Fig. 34a

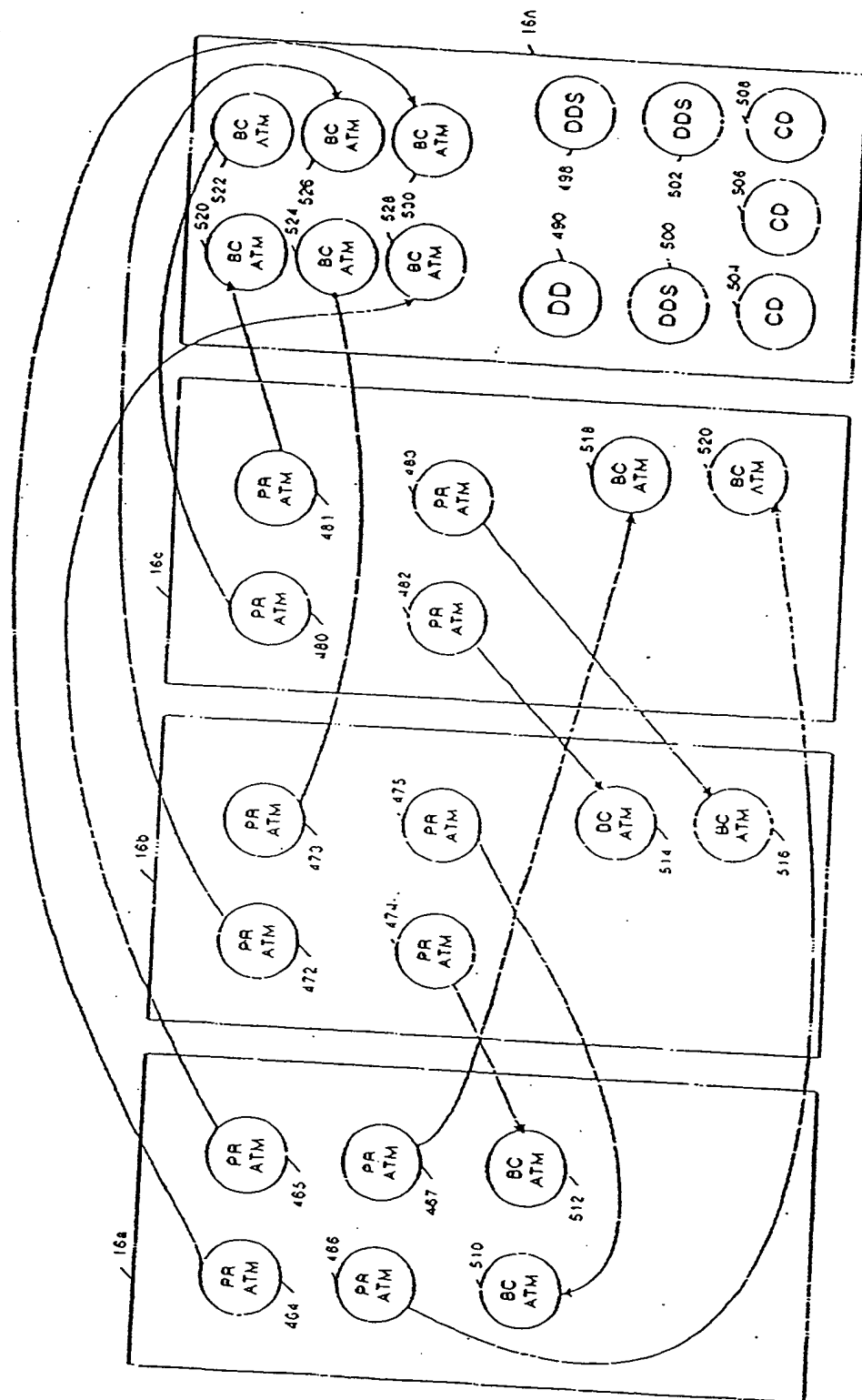


FIG. 34b

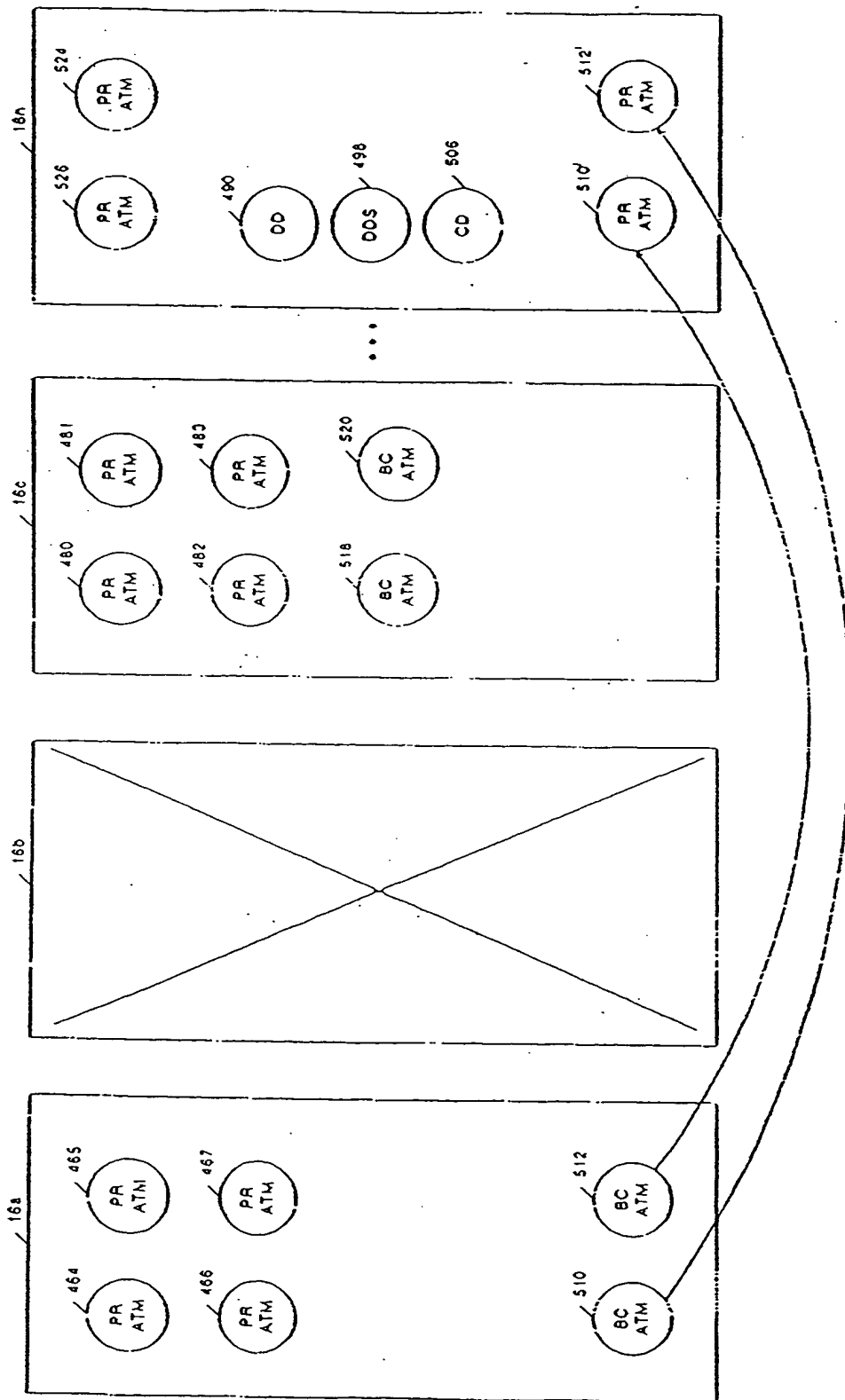


FIG. 35

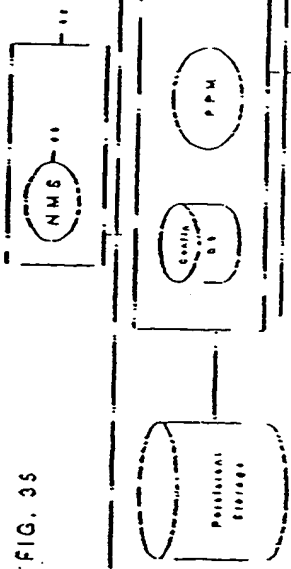
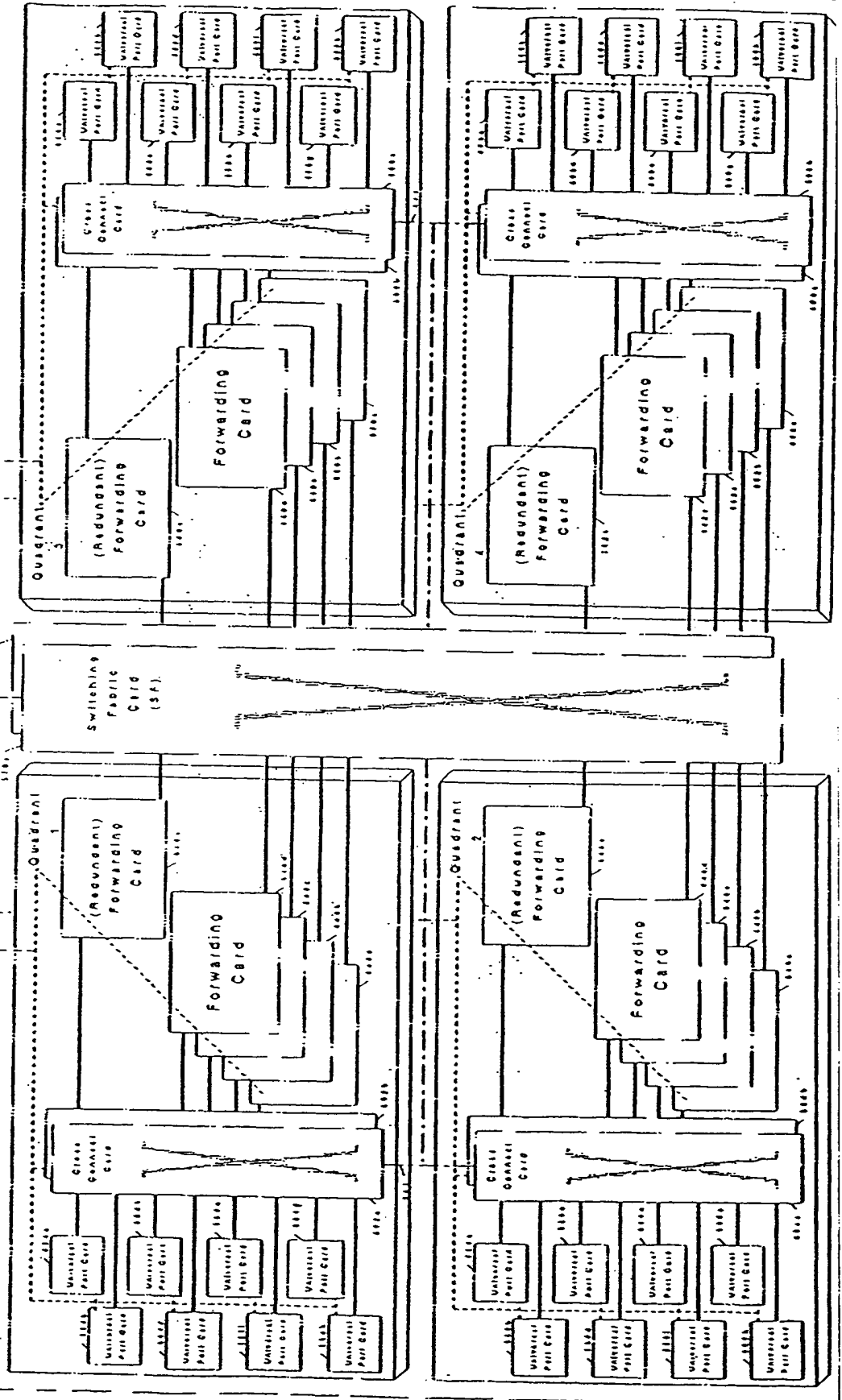


FIG. 35 is a block diagram of the system architecture.



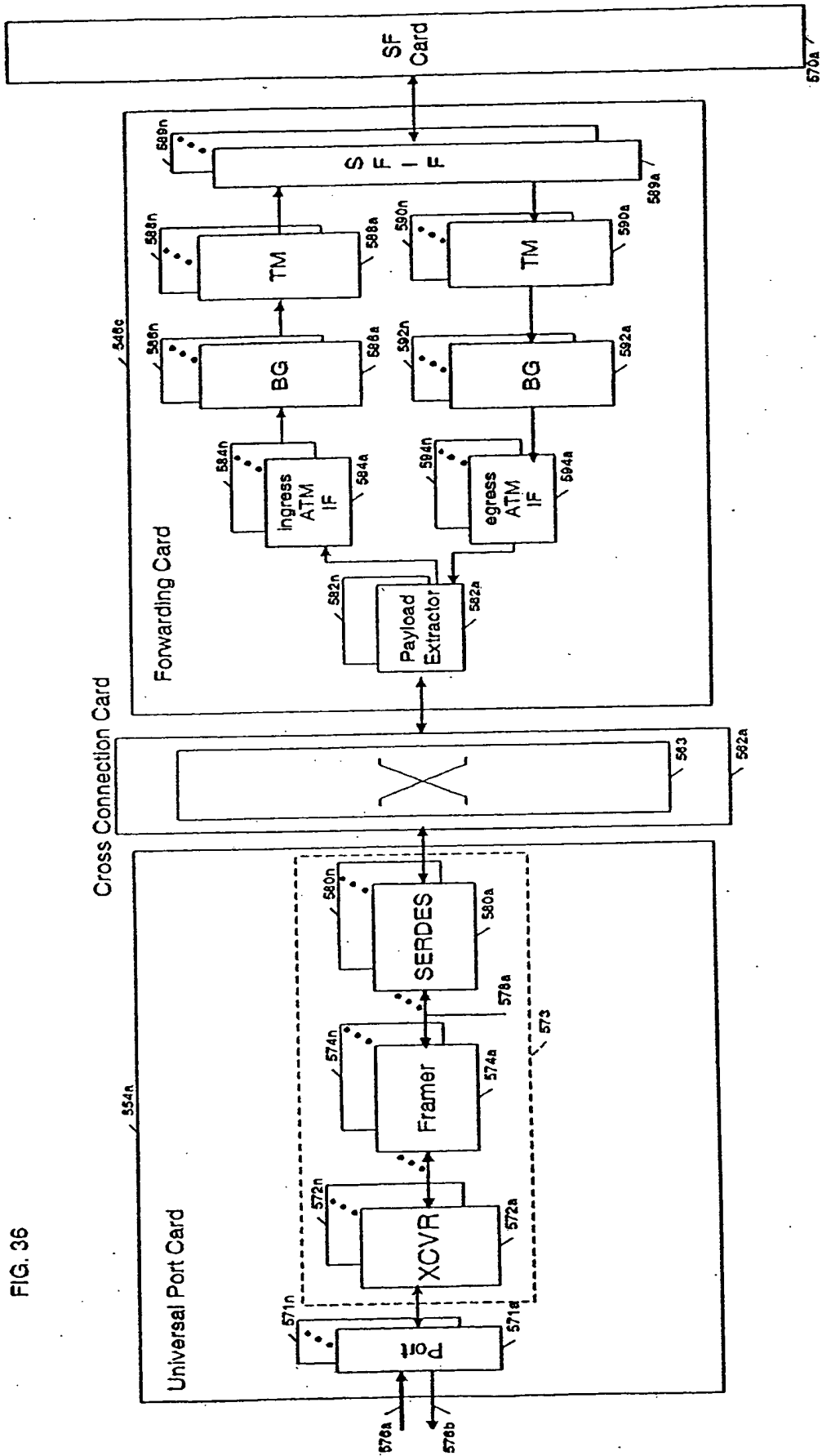


FIG. 36

FIG. 37

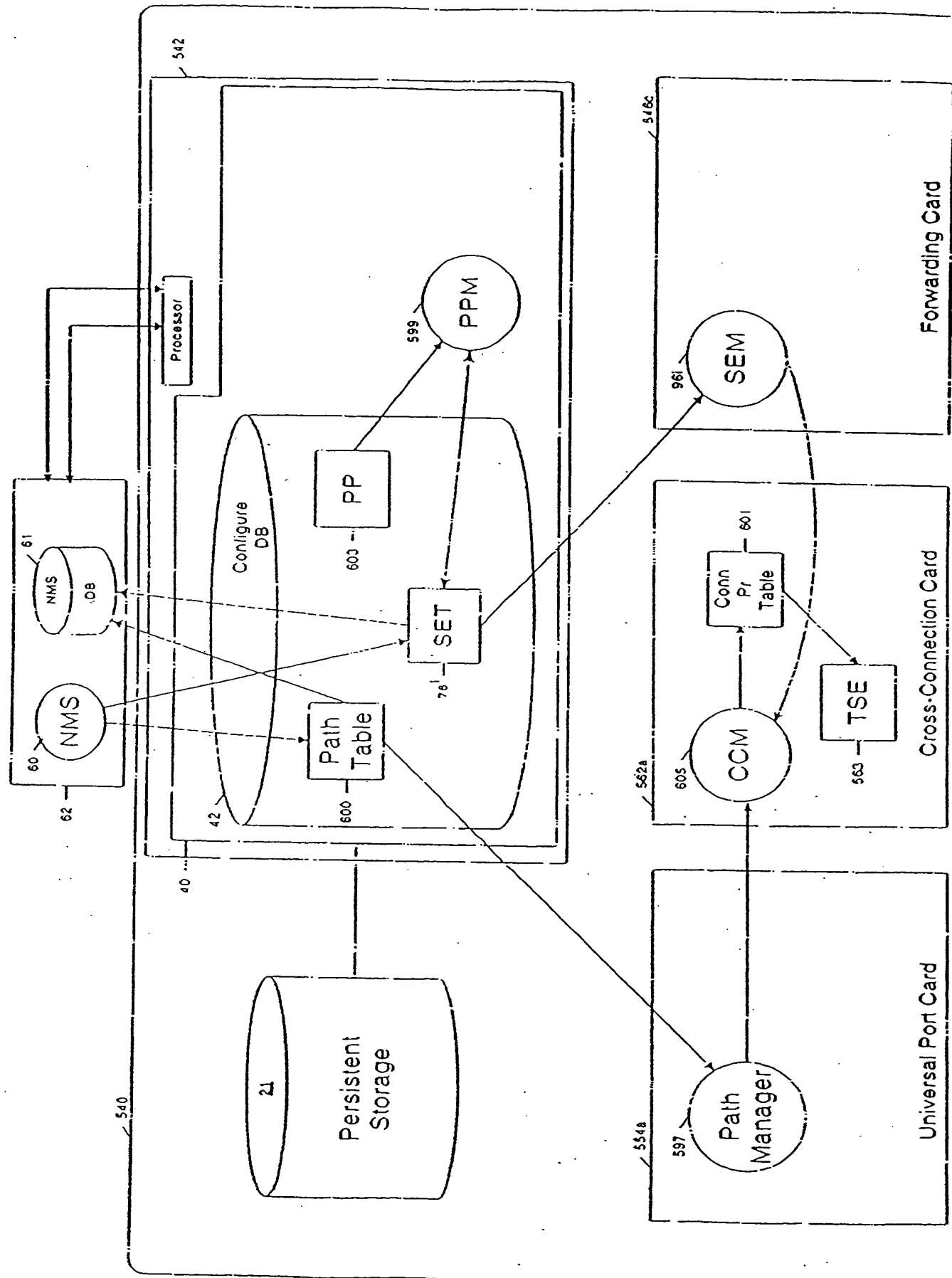


FIG. 38

Path Table 600

602

Path LID	UP Port LID	Time Slot	# of Time Slots	...
1666	1231	4	3	
...

FIG. 39

Service End Point Table 76'

SE #	Q #	FC LID	FC Slice	FC Time Slot	Path PID	...
878	1				1666	
...

604

606

608

610

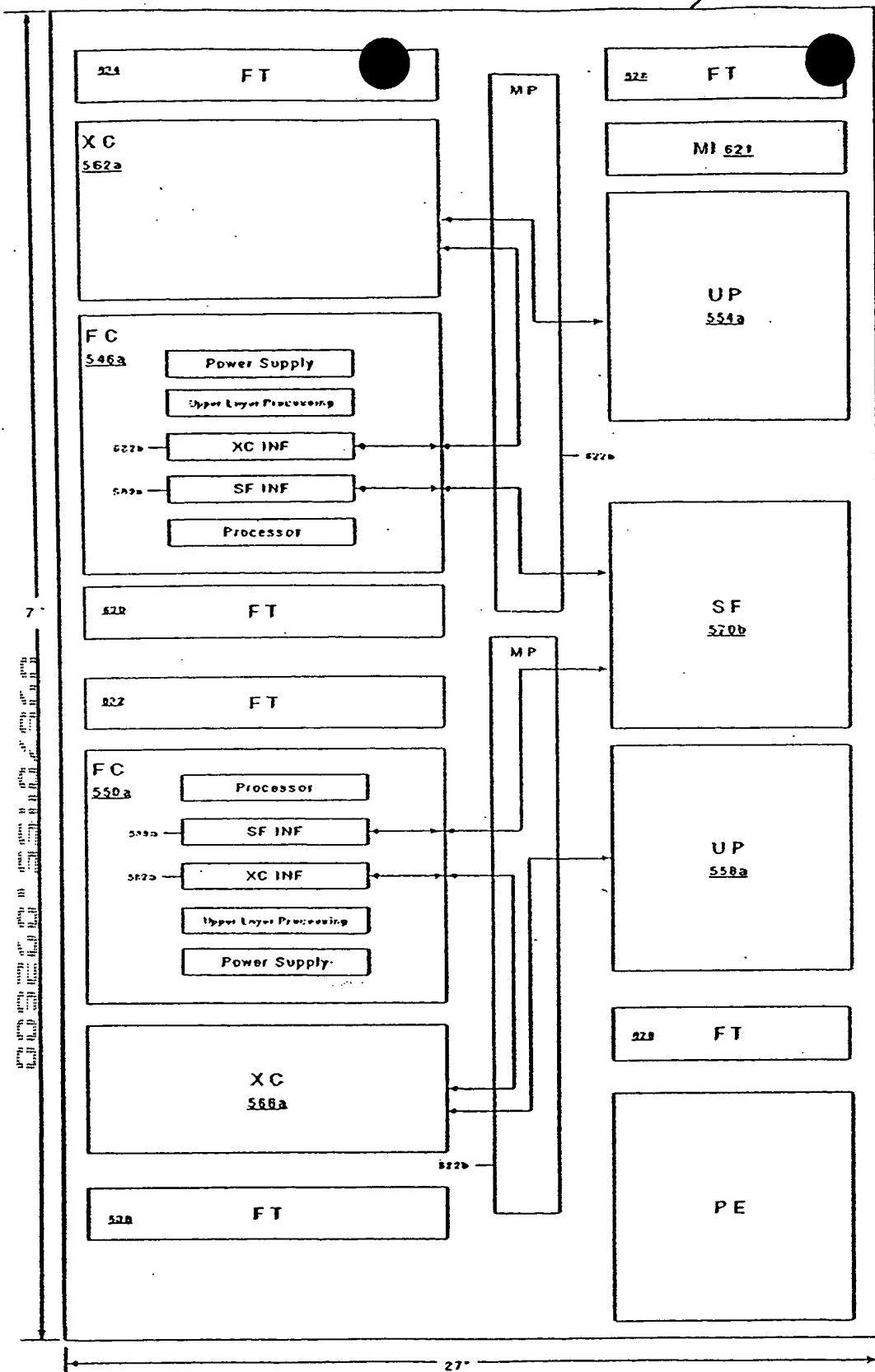


FIGURE 41C

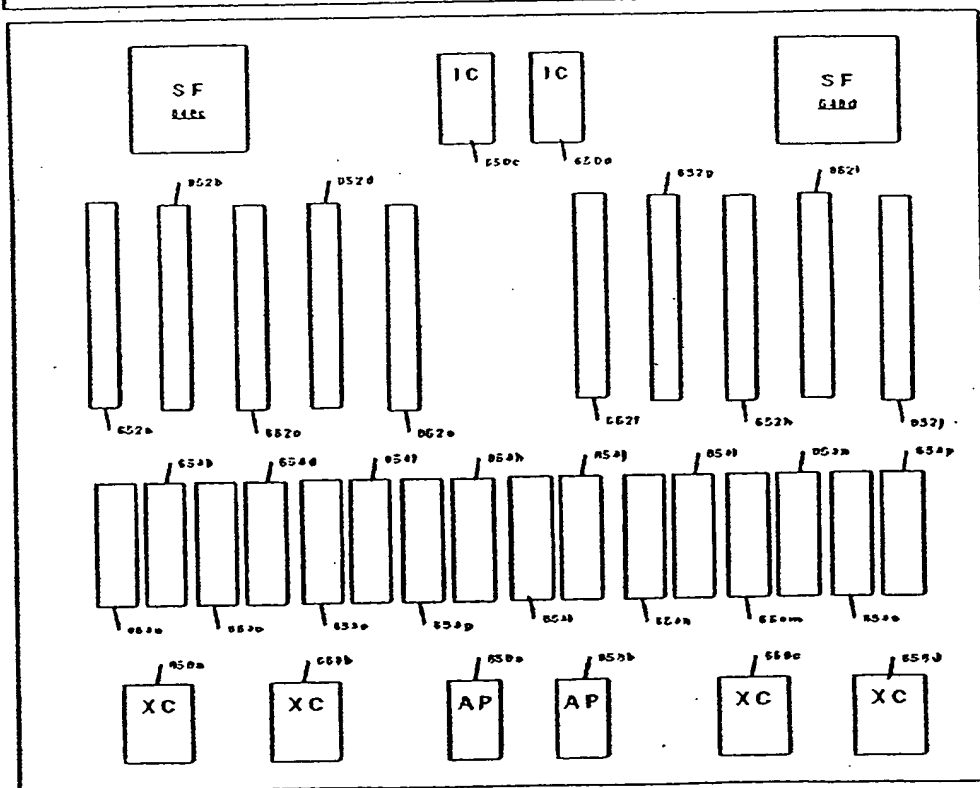
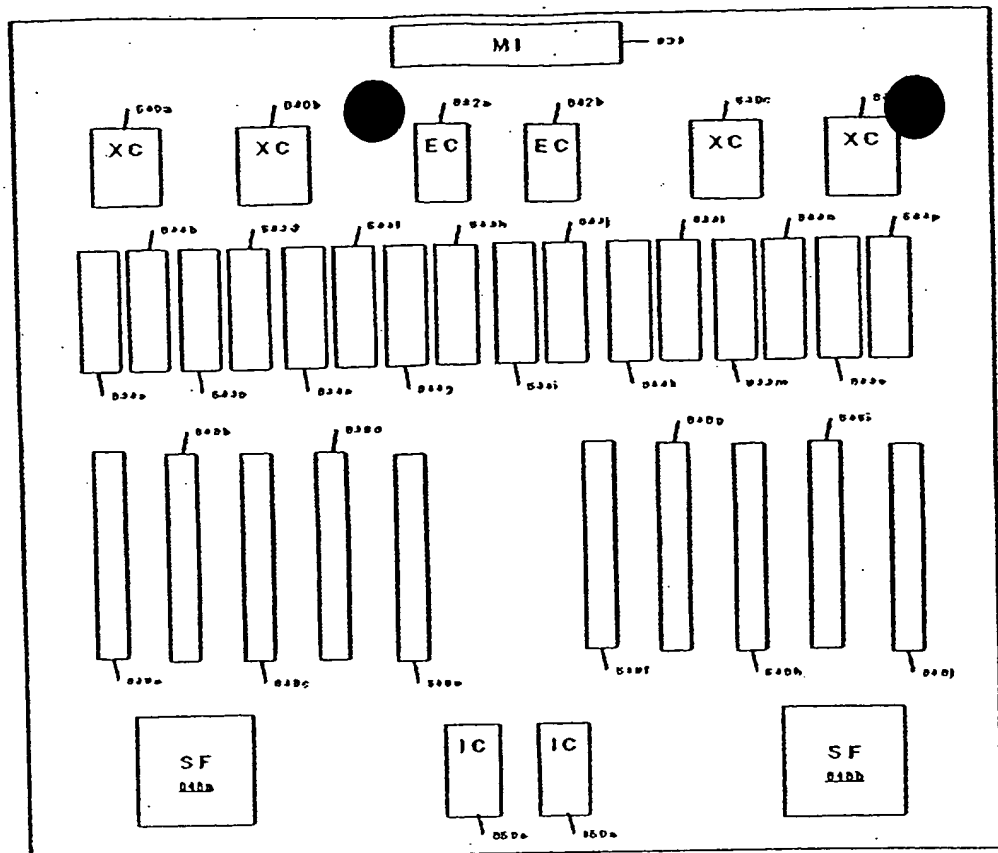
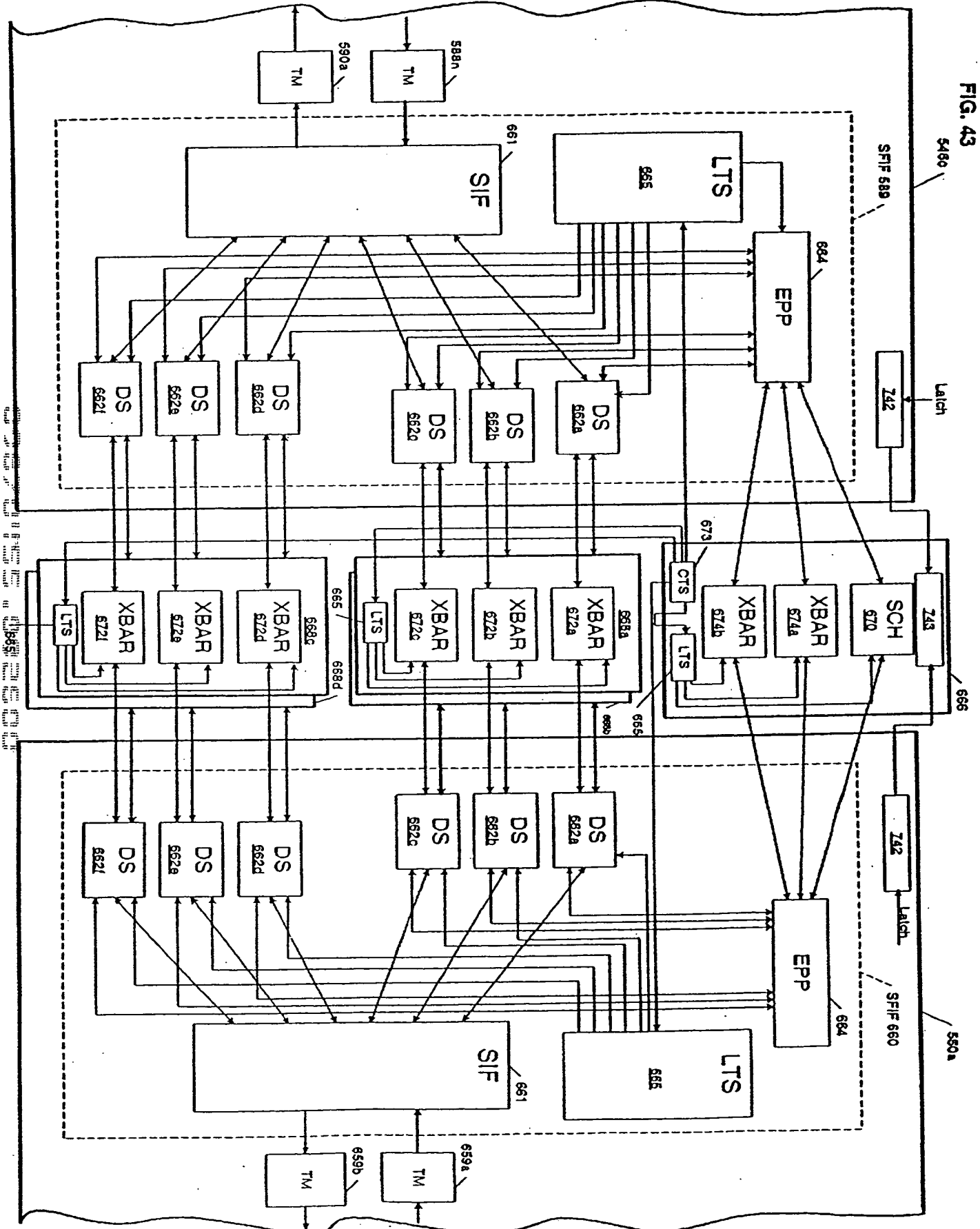


FIGURE 42

FIG. 43



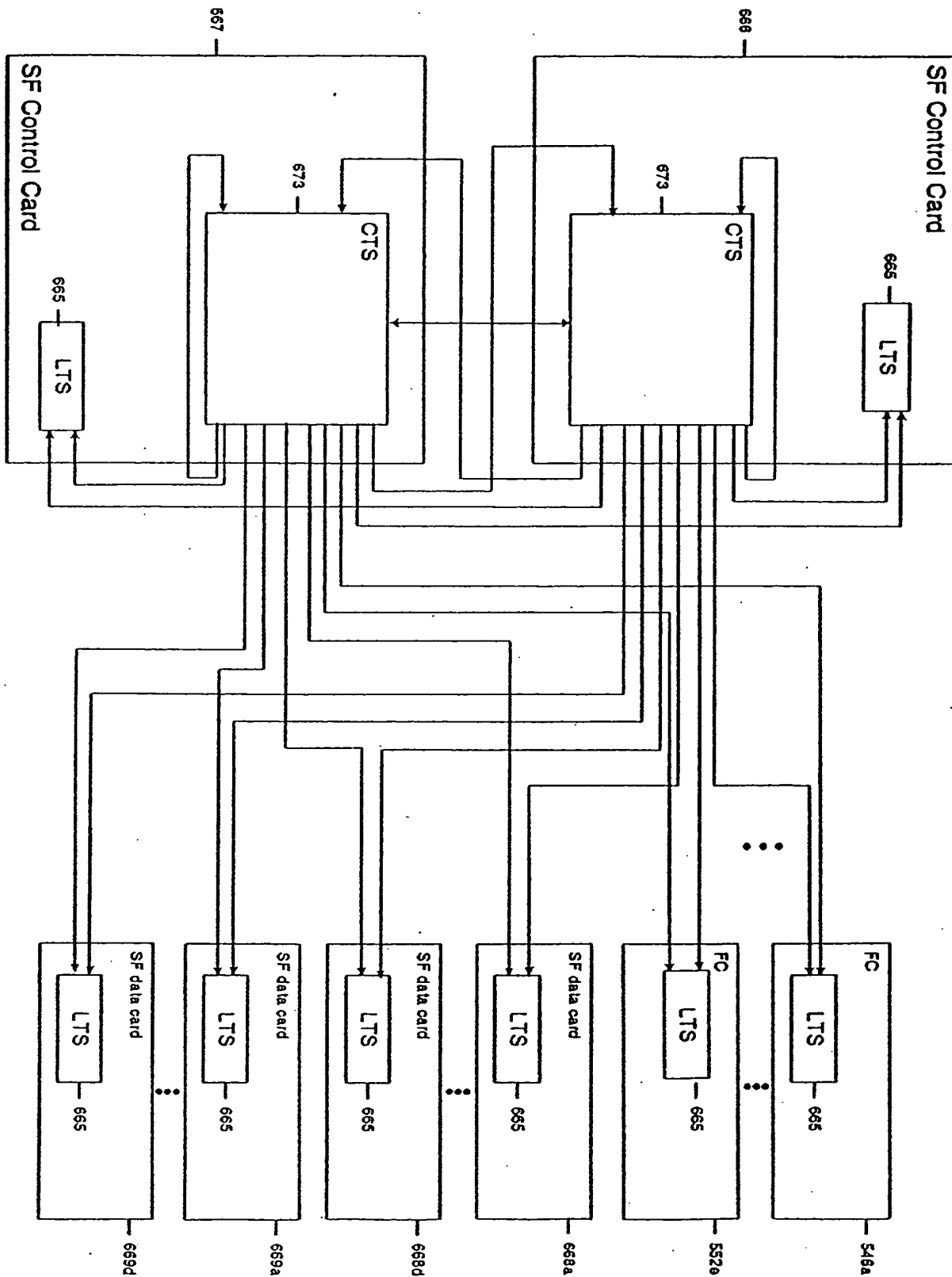
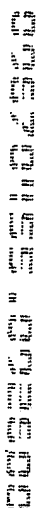


FIG. 44

540

673



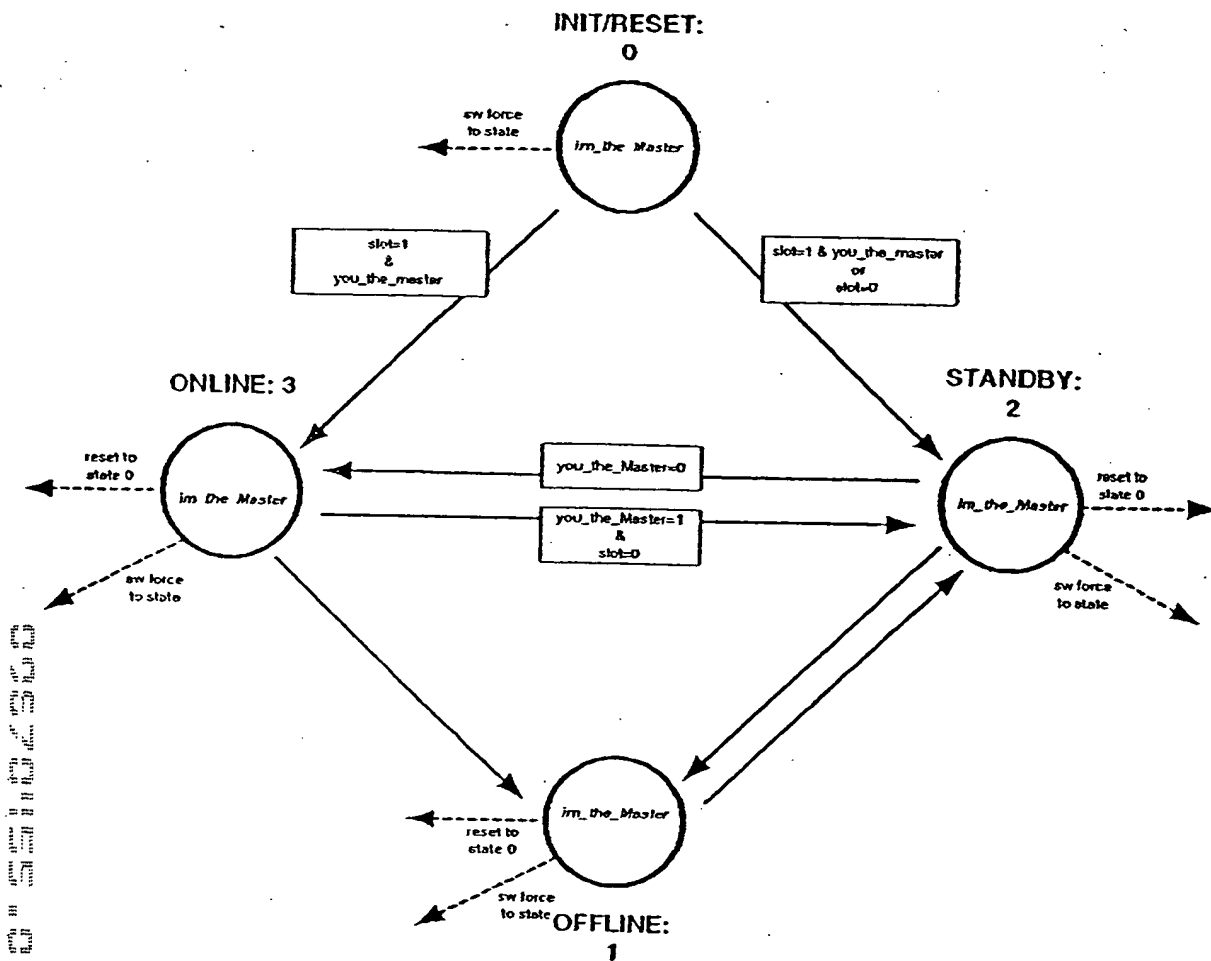


FIG. 46

995



1977-1978 1979-1980 1981-1982 1983-1984 1985-1986 1987-1988 1989-1990 1991-1992 1993-1994 1995-1996 1997-1998 1999-2000 2001-2002 2003-2004 2005-2006 2007-2008 2009-2010 2011-2012 2013-2014 2015-2016 2017-2018 2019-2020 2021-2022 2023-2024 2025-2026 2027-2028 2029-2030 2031-2032 2033-2034 2035-2036 2037-2038 2039-2040 2041-2042 2043-2044 2045-2046 2047-2048 2049-2050 2051-2052 2053-2054 2055-2056 2057-2058 2059-2060 2061-2062 2063-2064 2065-2066 2067-2068 2069-2070 2071-2072 2073-2074 2075-2076 2077-2078 2079-2080 2081-2082 2083-2084 2085-2086 2087-2088 2089-2090 2091-2092 2093-2094 2095-2096 2097-2098 2099-2100 2101-2102 2103-2104 2105-2106 2107-2108 2109-2110 2111-2112 2113-2114 2115-2116 2117-2118 2119-2120 2121-2122 2123-2124 2125-2126 2127-2128 2129-2130 2131-2132 2133-2134 2135-2136 2137-2138 2139-2140 2141-2142 2143-2144 2145-2146 2147-2148 2149-2150 2151-2152 2153-2154 2155-2156 2157-2158 2159-2160 2161-2162 2163-2164 2165-2166 2167-2168 2169-2170 2171-2172 2173-2174 2175-2176 2177-2178 2179-2180 2181-2182 2183-2184 2185-2186 2187-2188 2189-2190 2191-2192 2193-2194 2195-2196 2197-2198 2199-2200 2201-2202 2203-2204 2205-2206 2207-2208 2209-2210 2211-2212 2213-2214 2215-2216 2217-2218 2219-2220 2221-2222 2223-2224 2225-2226 2227-2228 2229-2230 2231-2232 2233-2234 2235-2236 2237-2238 2239-2240 2241-2242 2243-2244 2245-2246 2247-2248 2249-2250 2251-2252 2253-2254 2255-2256 2257-2258 2259-2260 2261-2262 2263-2264 2265-2266 2267-2268 2269-2270 2271-2272 2273-2274 2275-2276 2277-2278 2279-2280 2281-2282 2283-2284 2285-2286 2287-2288 2289-2290 2291-2292 2293-2294 2295-2296 2297-2298 2299-2300 2301-2302 2303-2304 2305-2306 2307-2308 2309-2310 2311-2312 2313-2314 2315-2316 2317-2318 2319-2320 2321-2322 2323-2324 2325-2326 2327-2328 2329-2330 2331-2332 2333-2334 2335-2336 2337-2338 2339-2340 2341-2342 2343-2344 2345-2346 2347-2348 2349-2350 2351-2352 2353-2354 2355-2356 2357-2358 2359-2360 2361-2362 2363-2364 2365-2366 2367-2368 2369-2370 2371-2372 2373-2374 2375-2376 2377-2378 2379-2380 2381-2382 2383-2384 2385-2386 2387-2388 2389-2390 2391-2392 2393-2394 2395-2396 2397-2398 2399-2400 2401-2402 2403-2404 2405-2406 2407-2408 2409-2410 2411-2412 2413-2414 2415-2416 2417-2418 2419-2420 2421-2422 2423-2424 2425-2426 2427-2428 2429-2430 2431-2432 2433-2434 2435-2436 2437-2438 2439-2440 2441-2442 2443-2444 2445-2446 2447-2448 2449-2450 2451-2452 2453-2454 2455-2456 2457-2458 2459-2460 2461-2462 2463-2464 2465-2466 2467-2468 2469-2470 2471-2472 2473-2474 2475-2476 2477-2478 2479-2480 2481-2482 2483-2484 2485-2486 2487-2488 2489-2490 2491-2492 2493-2494 2495-2496 2497-2498 2499-2500 2501-2502 2503-2504 2505-2506 2507-2508 2509-2510 2511-2512 2513-2514 2515-2516 2517-2518 2519-2520 2521-2522 2523-2524 2525-2526 2527-2528 2529-2530 2531-2532 2533-2534 2535-2536 2537-2538 2539-2540 2541-2542 2543-2544 2545-2546 2547-2548 2549-2550 2551-2552 2553-2554 2555-2556 2557-2558 2559-2560 2561-2562 2563-2564 2565-2566 2567-2568 2569-2570 2571-2572 2573-2574 2575-2576 2577-2578 2579-2580 2581-2582 2583-2584 2585-2586 2587-2588 2589-2590 2591-2592 2593-2594 2595-2596 2597-2598 2599-2600 2601-2602 2603-2604 2605-2606 2607-2608 2609-2610 2611-2612 2613-2614 2615-2616 2617-2618 2619-2620 2621-2622 2623-2624 2625-2626 2627-2628 2629-2630 2631-2632 2633-2634 2635-2636 2637-2638 2639-2640 2641-2642 2643-2644 2645-2646 2647-2648 2649-2650 2651-2652 2653-2654 2655-2656 2657-2658 2659-2660 2661-2662 2663-2664 2665-2666 2667-2668 2669-2670 2671-2672 2673-2674 2675-2676 2677-2678 2679-2680 2681-2682 2683-2684 2685-2686 2687-2688 2689-2690 2691-2692 2693-2694 2695-2696 2697-2698 2699-2700 2701-2702 2703-2704 2705-2706 2707-2708 2709-2710 2711-2712 2713-2714 2715-2716 2717-2718 2719-2720 2721-2722 2723-2724 2725-2726 2727-2728 2729-2730 2731-2732 2733-2734 2735-2736 2737-2738 2739-2740 2741-2742 2743-2744 2745-2746 2747-2748 2749-2750 2751-2752 2753-2754 2755-2756 2757-2758 2759-2760 2761-2762 2763-2764 2765-2766 2767-2768 2769-2770 2771-2772 2773-2774 2775-2776 2777-2778 2779-2780 2781-2782 2783-2784 2785-2786 2787-2788 2789-2790 2791-2792 2793-2794 2

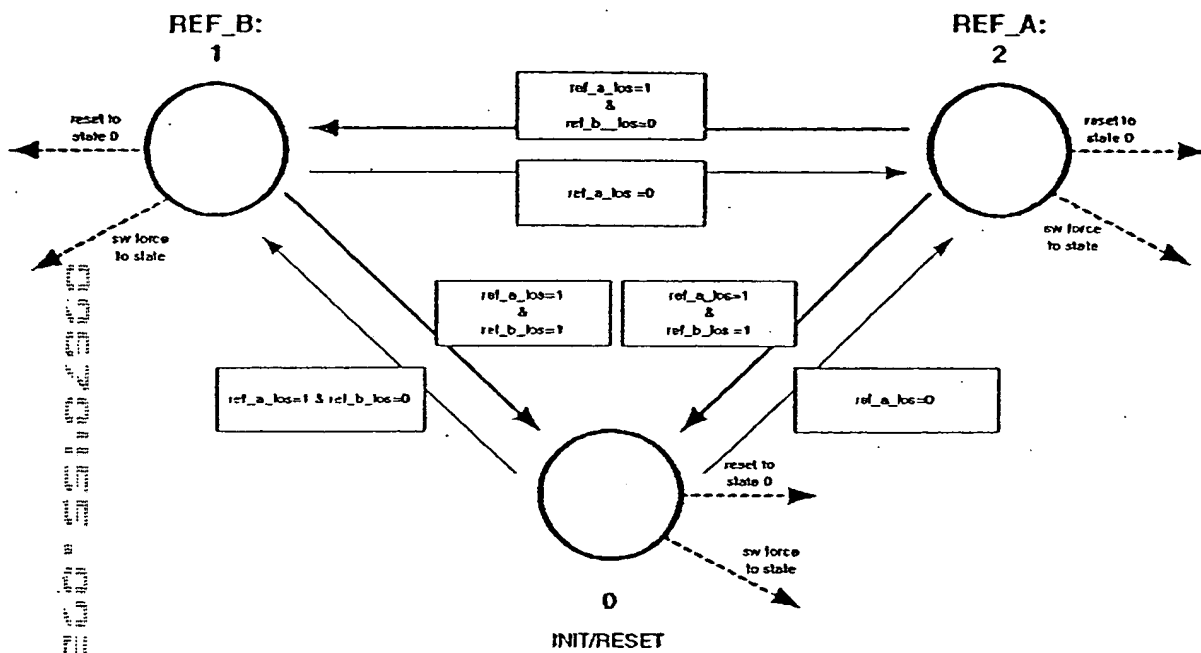


FIG. 48

540

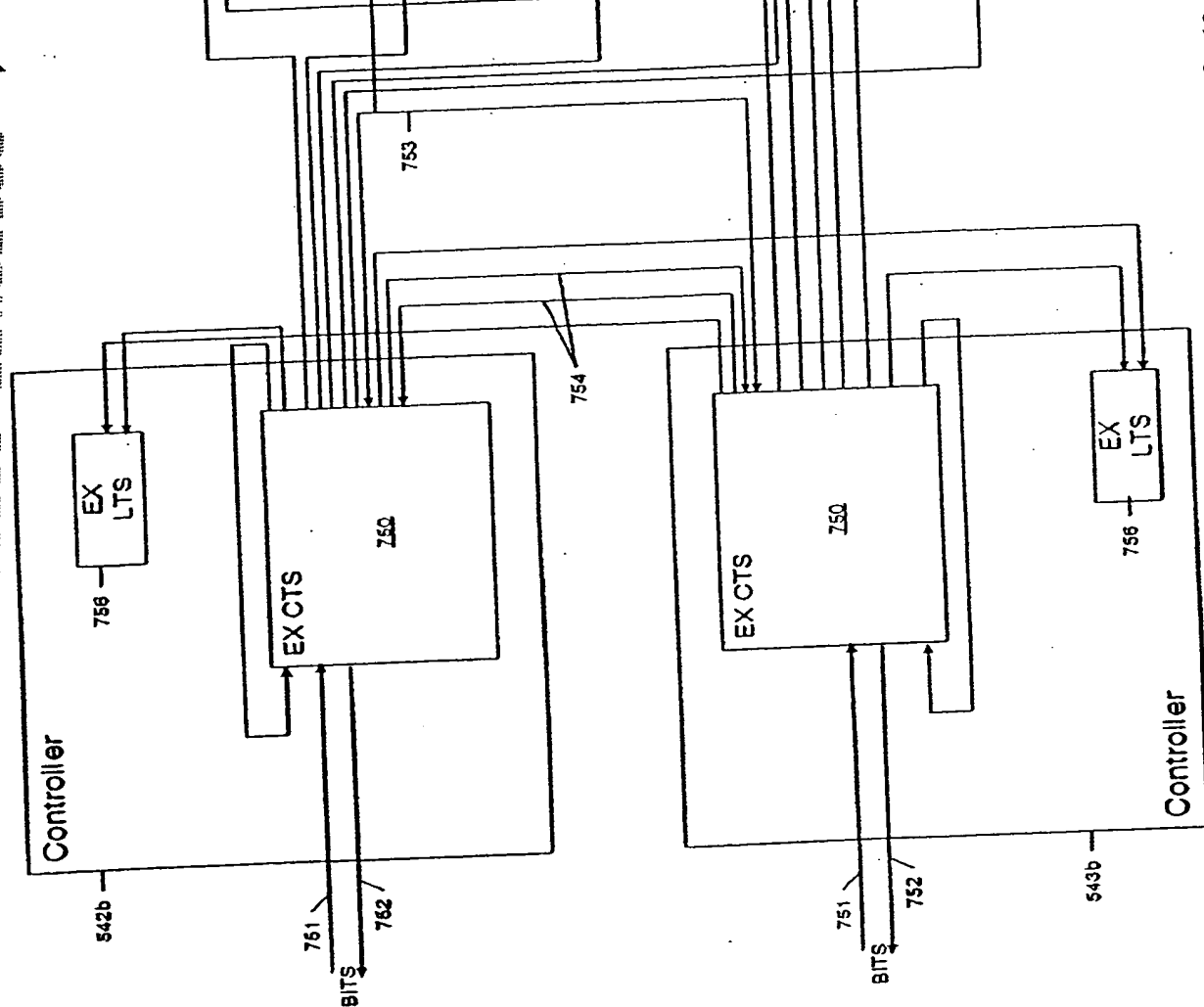


FIG. 49

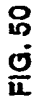


FIG. 50

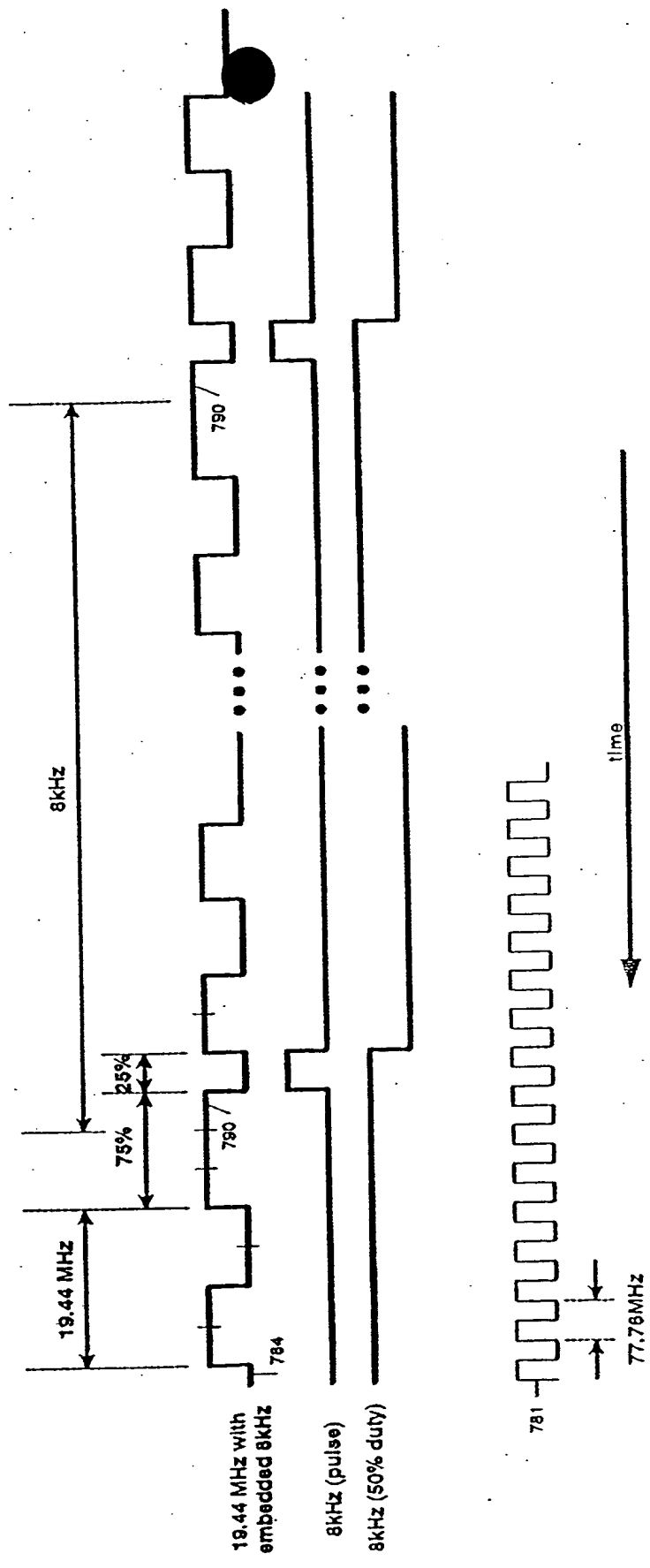


FIG. 51

792

792

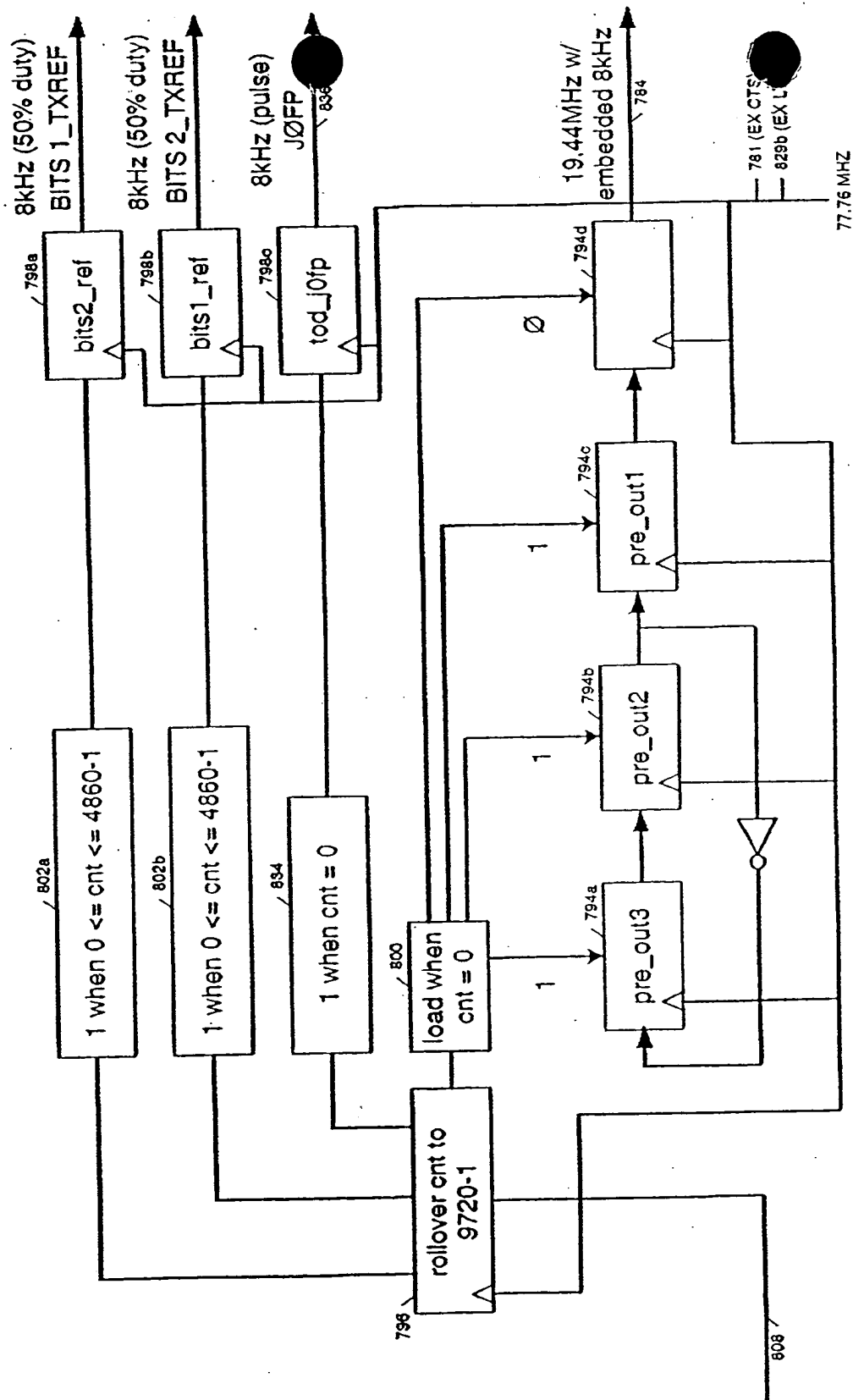
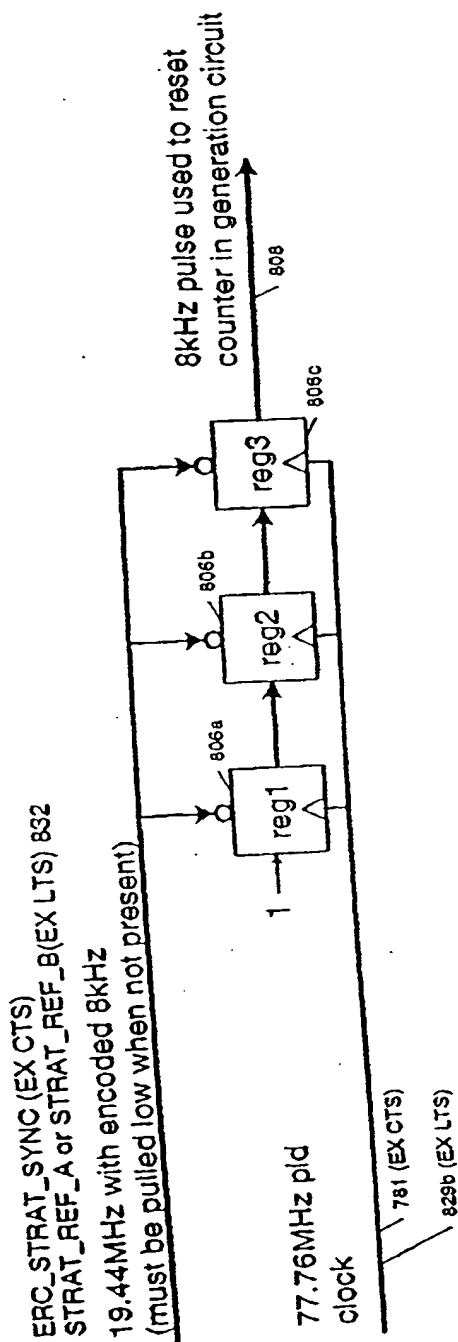


Fig. 52

804



Extractor

FIG. 53

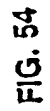


FIG. 54

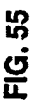


FIG. 55

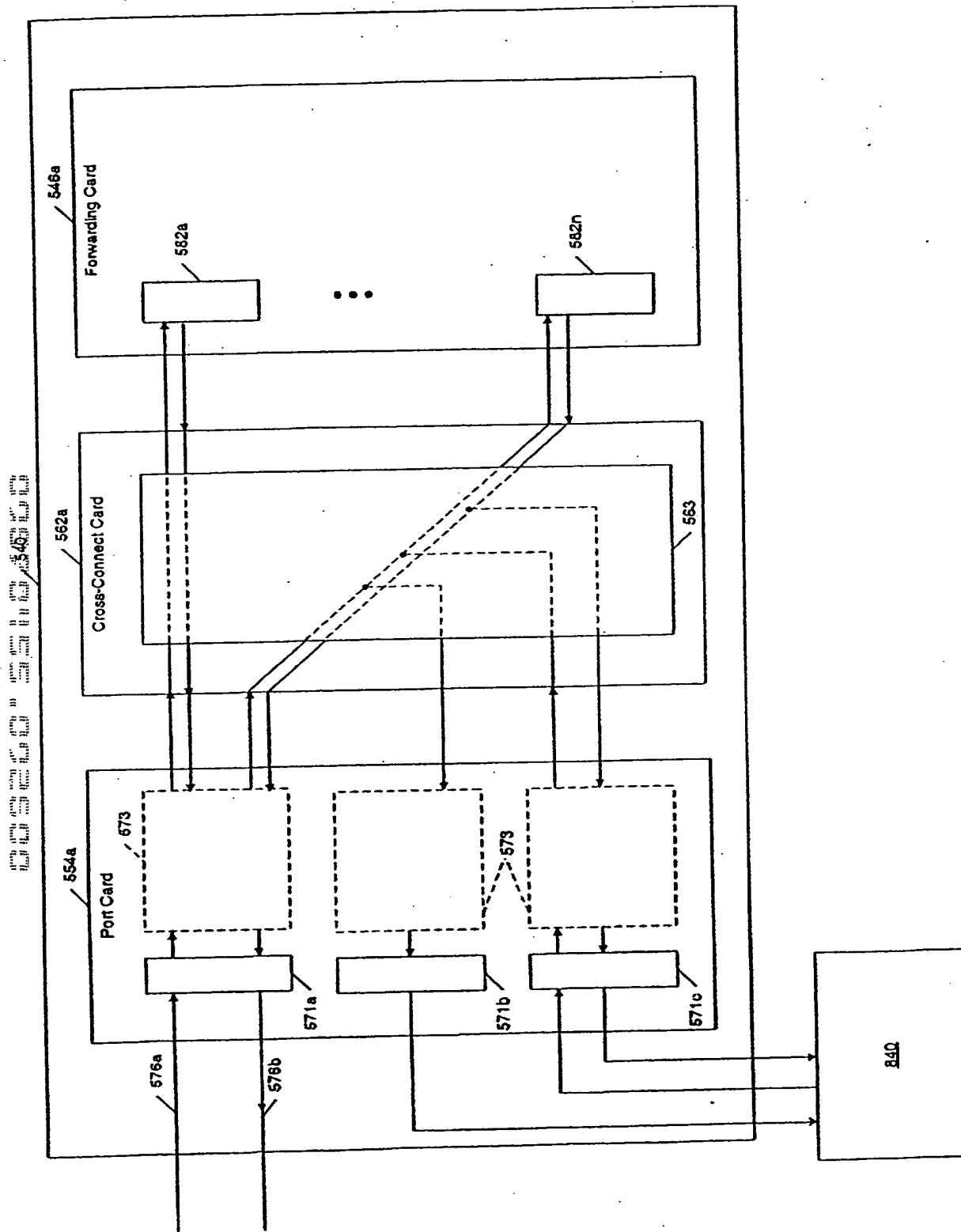


Fig. 56

FIG.57

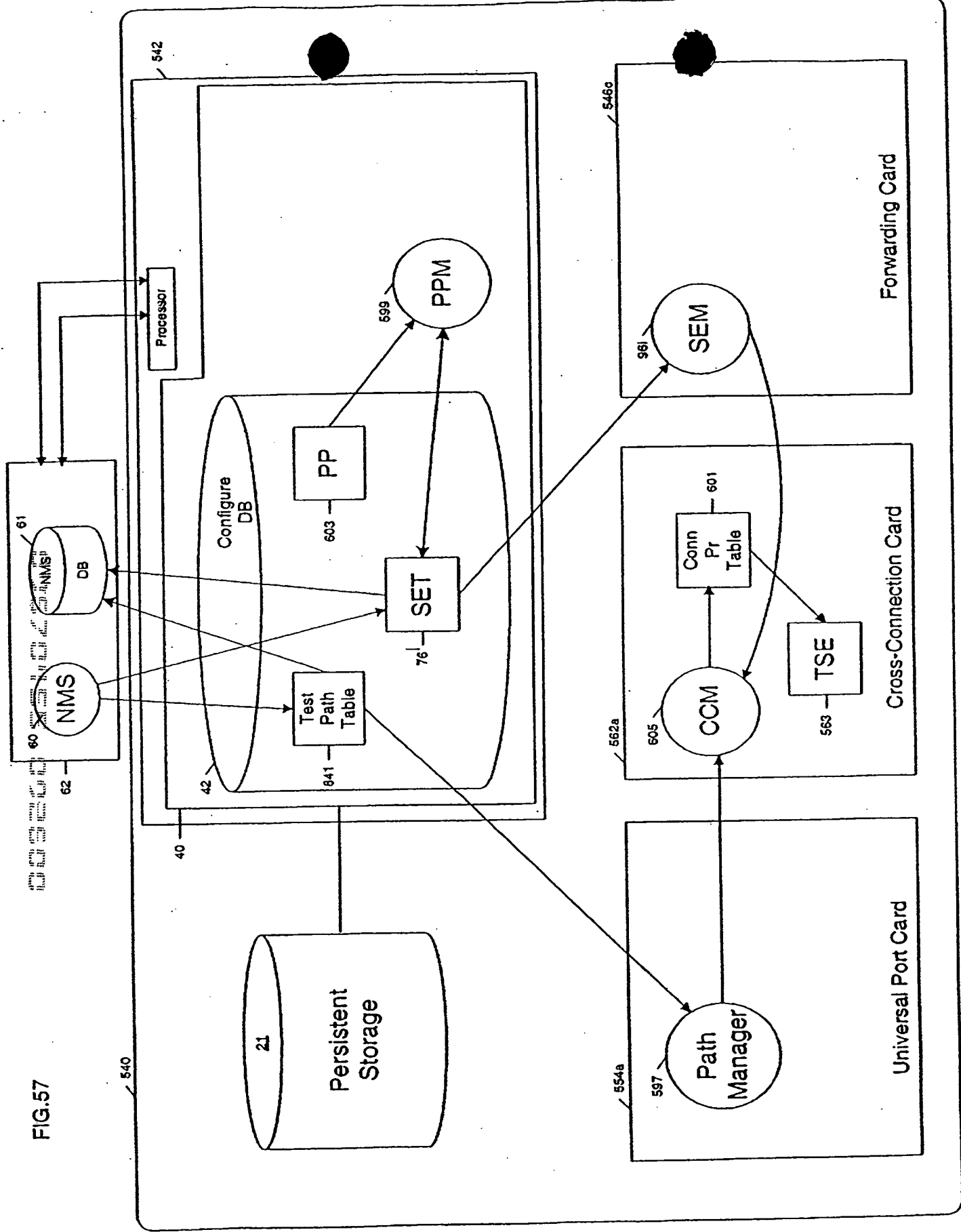
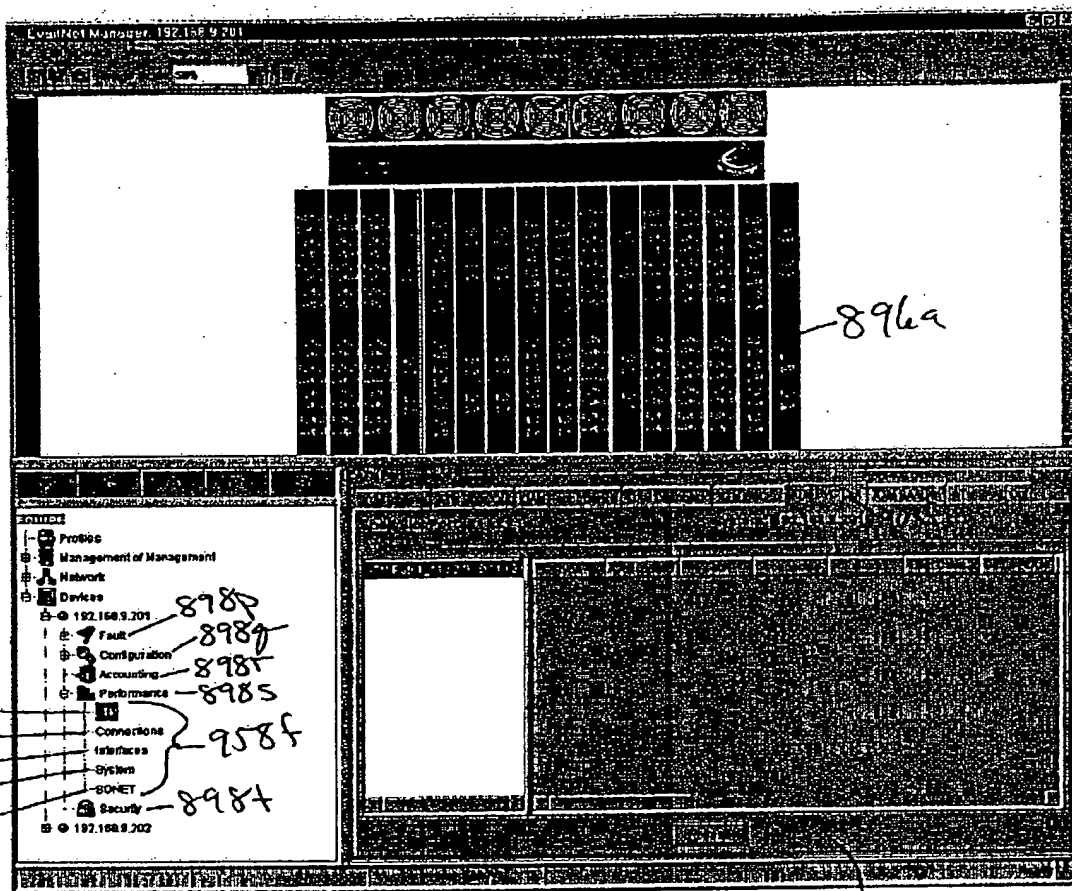


FIG. 58

Test Path Table 841

Path LID	UP Port LID	Time Slot	# of Time Slots	Monitor	Enable Port Receiver	...
1666	1232	4	3	Ingress	No	
1666	1233	4	3	Egress	No	
1666	1233	4	3	Ingress	Yes	
...

895



897

Fig. 7+